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進階生物科技股份有限公司

服務專線: 0800-251302

The Source for **Carbohydrates and Nucleosides**



# About Carbosynth

Carbosynth is a specialist chemical company primarily working in the fields of carbohydrates, nucleosides and fine chemicals. We aim to offer a broad range of products to the international R&D communities in the following catalogues:

**Enzyme Substrate and Detergent Catalogue**

**Monosaccharide Catalogue**

**Oligosaccharide Catalogue**

**Polysaccharide Catalogue and Handbook**

**Nucleoside Catalogue**

**Impurity and Metabolite Catalogue**

**Fine Chemical Catalogue (CD format)**

**Full Product Catalogue (CD format)**

The catalogues have over **30,000** products, of which over half are in stock. Although our catalogue listings are for R&D quantities, many are produced in bulk or can be scaled-up so we are happy to quote for semi-bulk and bulk quantities.

In our labs we synthesise many of the more complex catalogue products as well as undertaking custom synthesis work. Our focus is on the synthesis of complex carbohydrate building blocks, glucuronides, nucleosides, phosphoramidites, mono- and tri-phosphates. In addition we offer a range of fine chemicals, many of which are versatile building blocks or have specialist applications ranging from biochemical reagents, API impurities, diagnostic reagents to natural antioxidants. The core technologies include the synthesis of unnatural sugars and nucleosides that are of increasing interest to pharmaceutical and biotech discovery programs. We also have experience in a wide range of protection and activation strategies.

The Source for **Carbohydrates and Nucleosides**

In 2017 we opened new laboratories at our Compton site to support the growing demand from our clients for custom synthesis. Our team of scientists are highly motivated and committed to providing in-time development and delivery of quality compounds. If the product you require is not included in the catalogue please ask us to quote on a custom synthesis basis.



The Source for **Carbohydrates and Nucleosides**



## How to Use this Catalogue

Products within this catalogue are listed alphabetically by systematic name. Prefixes such as bis, tris, tetra are considered to be part of the alphabetical name whereas numerical, elemental and stereochemical identifiers are not. For example 5-O-(tert-Butyldimethylsilyl)-2,3-O-isopropylidene-D-ribofuranose appears in the B's section.

Commonly used names and acronyms can also be found in the alphabetical listing and are cross-referenced to their systematic name.

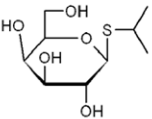
For example Water Soluble Carbodiimide and its acronyms WSC, EDAC, EDC are all listed alphabetically and cross-referenced to 1-(3-Dimethylaminopropyl)-3-ethylcarbodiimide HCl.

It is also possible to find a product if you know its Chemical Abstracts Service Registry Number (CAS), its formula or its Carbosynth product code. The CAS Index is arranged in ascending order and cross-referenced to the alphabetical list. In some unusual cases where we feel that a product has more than one commonly used CAS, then all appear in the CAS Index cross-referenced to the alphabetical list. The Carbosynth Product Code Index is arranged in ascending alphanumeric order and cross-referenced to the alphabetical list.

If the product that you require is not listed in the catalogue please enquire as we may have updated our product list since the publication of the catalogue. We may also be able to offer the product you require as a custom synthesis.



## Key to Product Listing

Product Name	Isopropyl b-D-thiogalactopyranoside - non-animal origin	Product Grade
Synonym or Acronym	• IPTG non-animal origin	Formula
CAS Registry Number	[367-93-1] C <sub>9</sub> H <sub>18</sub> O <sub>5</sub> S 238.30	Formula Weight
Product Code	EI05931	Prices
Structure		Typical Pack Size
	<b>Refs:</b> Lama J, et al, Gene 1992, 117, 185; Zhang Y, Moss B, Natl. Acad. Sci. USA, 1991, 88, 1511; Rodriguez JF, Smith GL, Nucleic Acids Res. 1990, 18, 5347; Date T, et al, Biochem. Biophys. Res. Commun. 1988, 151, 598; Lee SG, et al, Biochemistry 1988, 27, 2983	
		10g \$35.00
		25g \$60.00
		50g \$95.00

## Product Usage

Carbosynth's products are intended for research purposes only. They are not to be used for any other purposes including, but not limited to, usage in drugs, cosmetics or foodstuffs. The purchaser has the responsibility to independently verify hazards and risks associated with handling or using products purchased from Carbosynth and ensure that the purchaser's employees and any associates who come into contact with the products understand these hazards and risks.

The Source for **Carbohydrates and Nucleosides**



## How to Order

To place an order or make a product enquiry please contact us by phone, fax, email or post. Our contact details are as follows:

### **Carbosynth Limited**

Axis House, High Street  
Compton, Berkshire  
RG20 6NL. United Kingdom

☎ 44 1635 578444

☎ 44 1635 579444

✉ orders@carbosynth.com

### **Carbosynth US LLC**

7887 Dunbrook Road, Suite F  
San Diego, CA 92126. USA

☎ 888-681-2933 (toll-free)

☎ 858-779-9911

☎ 858-605-0807

✉ sales@carbosynth.com

### **Carbosynth China Ltd**

Suite 421, Building A2  
218 Xinghu Street  
Suzhou Industrial Park  
215123. China

☎ 86 512 6260 5585

☎ 86 512 6260 5576

✉ sales@carbosynth.com

### **Carbosynth India**

T-1. Block 2, Jains KK Gardens  
Vembuli Amman Kovil Street  
West KK Nager  
Chennai 600 078. India

☎ 91 44 420 16316

✉ enquiries@carbosynth.com

On-line ordering and payment can be made by credit card at [www.carbosynth.com](http://www.carbosynth.com) or by ringing 44 1635 577667, or for US & Canada 858-779-9911

In all cases, please supply the following information with your purchase order:

- Name of company or organisation
- Delivery address
- Invoice address and VAT number
- Contact name and phone number
- Carbosynth product code
- Purchase order unique reference or number

In the interests of Health and Safety we are unable to supply chemicals to private individuals or residential addresses.

The Source for **Carbohydrates and Nucleosides**



## Prices

All prices are on an EXW basis in US Dollars (\$) and are subject to alteration at any time. Actual transport costs vary and depend on weight, hazard class and destination. Any transport costs and hazardous surcharges are indicated on our invoices and we endeavour to minimise these. A guide to our transport and hazard charge is given below and we will advise you if the costs are higher than those in the table, prior to delivery.

Destination	Gross Weight	Transport Charge	Hazard Charge
Europe*, USA & Canada	< 0.5 kg	\$35	\$75
	0.5 - 2.5 kg	\$50	\$75
	2.5 - 5 kg	\$65	\$75
UK	< 0.5 kg	\$20	\$75
	0.5 - 2.5 kg	\$20	\$75
	2.5 - 5 kg	\$25	\$75
China, Australia, New Zealand, Russia & Ukraine	< 0.5 kg	\$60	\$150
	0.5 - 2.5 kg	\$75	\$150
	2.5 - 5 kg	\$90	\$150
India**	< 0.5 kg	\$45	\$90
	0.5 - 2.5 kg	\$60	\$90
	2.5 - 5 kg	\$80	\$90
Rest of World***	< 0.5 kg	\$60	\$90
	0.5 - 2.5 kg	\$75	\$90
	2.5 - 5 kg	\$90	\$90

\* Additional costs apply to hazardous shipments to Greece, Norway, Poland, Romania and some regions in Spain

\*\* Hazardous shipments are to the following airports only: Mumbai, Hyderabad, Bangalore and New Delhi. An additional cost of \$100 applies to hazardous shipments to Hyderabad airport

\*\*\* Some restrictions apply and some additional costs apply to some territories. These will be advised on request.

Different carriers have different restrictions on the hazardous classes and territories they serve. Our preferred carrier is FedEx, although the actual carrier will depend on the hazard class and the final destination. If you wish to have products shipped by your chosen carrier please include your carrier's name and account number on your purchase order. We reserve the right to alter the method of shipment if we deem that it does not comply with regulations or that the product will not be delivered in good order.

If you wish to purchase in Pounds (£) or EURs (€) please enquire or visit our website.

The Source for **Carbohydrates and Nucleosides**



# **Alphabetical Listing**

**Acacetin-7-neohesperidoside**

• Fortunellin

[20633-93-6] C<sub>28</sub>H<sub>32</sub>O<sub>14</sub> 592.55

OA71574

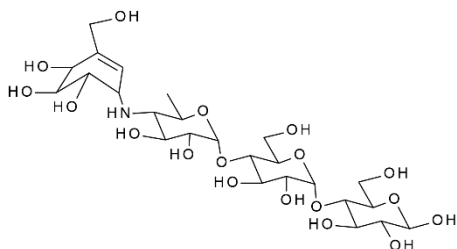
Price On Application

**Acacetin-7-O-b-D-rutinoside**see *Linarin*, OL08109 on page 179**Acarbose**

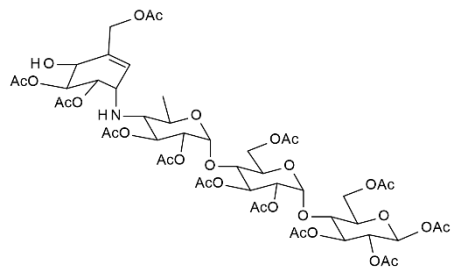
• 4",6"-Dideoxy-4"-([1S]-[1,4,6/5]-4,5,6-trihydroxy-3-hydroxymethyl-2-cyclohexenylamino)-maltotriose

[56180-94-0] C<sub>25</sub>H<sub>43</sub>NO<sub>18</sub> 645.62

OA00002

5g \$65.00  
10g \$90.00  
25g \$175.00Refs: Sailor D, et al, *Arzneim.-Forsch.* 1982, 30, p2182**Acarbose tridecaacetate**[117065-98-2] C<sub>51</sub>H<sub>69</sub>NO<sub>31</sub> 1192.08

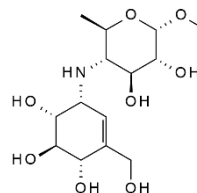
OA16497

25mg \$62.50  
50mg \$100.00  
100mg \$140.00Refs: Shibata, Y, et al, *Carbohydrate Res*, 189, 309 (1989)**Acarviosin**

• [1S-(1a,4a,5b,6a)]-4,6-Dideoxy-4-[[4,5,6-trihydroxy-3-(hydroxymethyl)-2-cyclohexen-1-yl]amino]-a-D-glucopyranoside methyl ester

[80943-41-5] C<sub>14</sub>H<sub>25</sub>NO<sub>8</sub> 335.35

OA34981

50mg \$150.00  
100mg \$250.00  
250mg \$525.00**AcBCD**see *Monoacetyl-b-cyclodextrin*, OM34954 on page 221**2-Acetamido-4-O-[2-acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-b-D-glucopyranosyl]-2-deoxy-D-glucopyranose**see *N,N''-Triacetylchitotriose*, OT06497 on page 275**2-Acetamido-4-O-[2-acetamido-4-O-[3-O-[2-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-a-D-mannopyranosyl]-6-O-[2-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-a-D-mannopyranosyl]-b-D-mannopyranosyl]-2-deoxy-b-D-glucopyranosyl]-2-deoxy-b-D-thioglucopyranoside**

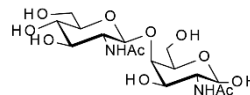
OA12498

1mg \$73.50  
2mg \$136.50  
5mg \$262.50**2-Acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-D-galactopyranose**

• GlcNAc-b-1-4-GalNAc

[141725-02-2] C<sub>16</sub>H<sub>28</sub>N<sub>2</sub>O<sub>11</sub> 424.4

OA15842

2mg \$525.00  
5mg \$1155.00**2-Acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-glucopyranosyl chloride 3,3',4',6,6'-pentaacetate**see *N,N'-Diacetyl-3,6,3',4',6'-penta-O-acetyl-1-chlorochitobioside*, OD16690 on page 77

## Acetamidoace

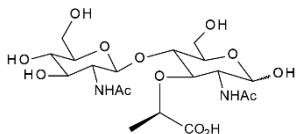
**2-Acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-D-muramic acid**

- N-Acetyl-4-O-[2-(acetylamino)-2-deoxy-b-D-glucopyranosyl]-muramic acid
- N-Acetyl-D-glucosaminyl-(1-4)-N-acetylmuramic acid

[41137-10-4][67068-85-3] C<sub>19</sub>H<sub>32</sub>N<sub>2</sub>O<sub>13</sub> 496.46

OA07182

0.5mg	\$210.00
1mg	\$395.00
2mg	\$750.00



Refs: Sharon N, et al., J. Biol. Chem, 1996, 241, 223; Valinger Z, et al., Biochem. Biophys. Acta, 1982, 701, p63

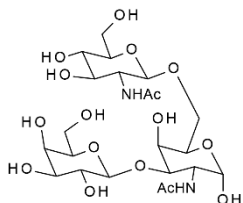
**2-Acetamido-6-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-3-O-(b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranose**

- O-2-(Acetylamino)-2-deoxy-b-D-glucopyranosyl-(1-6)-O-[b-D-galactopyranosyl-(1-3)]-2-(acetylamino)-2-deoxy-a-D-galactopyranose

[149793-99-7] C<sub>22</sub>H<sub>38</sub>N<sub>2</sub>O<sub>16</sub> 586.54

OA16439

Price On Application



Refs: Helenius, A, et al, Science, 291, 2364 (2001); Bryan, M, et al, Chem. Biol, 9, 713 (2002); Wang, D, et al, Nat. Biotechnol, 20, 275 (2002)

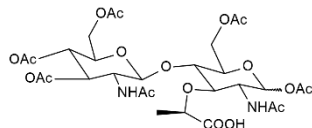
**2-Acetamido-4-O-(2-acetamido-2-deoxy-3,4,6-tri-O-acetyl-b-D-glucopyranosyl)-1,6-di-O-N-acetyl-D-muramic acid**

- GlcNAc-1-b-4-MurNAc(OAc)<sub>5</sub>
- N-Acetyl-4-O-[3,4,6-tri-O-acetyl-2-(acetylamino)-2-deoxy-b-D-glucopyranosyl]-Muramic Acid1,6-Diacetate

[475502-13-7] C<sub>29</sub>H<sub>42</sub>N<sub>2</sub>O<sub>18</sub> 706.66

OA05067

1mg	\$300.00
2mg	\$550.00
5mg	\$1100.00

**2-Acetamido-4-O-(2-acetamido-4-O-[[3-O-[2,4-di-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-a-D-mannopyranosyl]-6-O-[2,6-di-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-b-D-mannopyranosyl]-b-D-mannopyranosyl]]-2-deoxy-b-D-glucopyranosyl)-6-O-(a-L-fucopyranosyl)-2-deoxy-b-D-thioglucopyranoside**

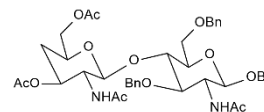
OA12493

1mg	\$126.00
2mg	\$210.00
5mg	\$472.50

**2-Acetamido-4-O-(2-acetamido-3,6-di-O-acetyl-2,4-dideoxy-b-D-glucopyranosyl)-1,3,6-tri-O-benzyl-2-deoxy-b-D-glucopyranoside**C<sub>41</sub>H<sub>50</sub>N<sub>2</sub>O<sub>12</sub> 762.84

OA07392

1mg	\$262.50
2mg	\$504.00
5mg	\$945.00

**2-Acetamido-4-O-[2-acetamido-4-O-(b-D-glucopyranosyl)-3,6-di-O-(a-D-mannopyranosyl)-2-deoxy-b-D-glucopyranosyl]-2-deoxy-b-D-thioglucopyranoside**

OA12492

100mg	\$79.00
250mg	\$132.50
500mg	\$205.00

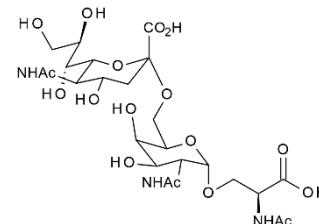
**2-Acetamido-6-O-(a-2-N-acetylneuraminy)-2-deoxy-a-D-galactopyranosyl N-acetylserine**

- STN Epitope N-acetate
- 6-O-a-Sialyl-2-acetamido-2-deoxy-a-D-galactopyranosyl-1-O-L-serine, N acetate

[385398-89-0] C<sub>24</sub>H<sub>39</sub>N<sub>3</sub>O<sub>17</sub> 641.58

OA07389

10mg	\$2000.00
25mg	\$3500.00



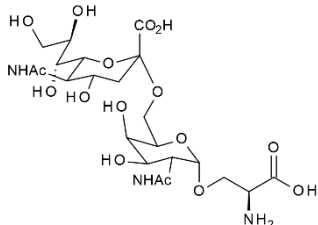
**2-Acetamido-6-O-(a-2-N-acetylneuraminy)-2-deoxy-a-D-galactopyranosyl serine**

- STN Epitope
- 6-O-a-Sialyl-2-acetamido-2-deoxy-a-D-galactopyranosyl-1-O-L-serine

[114661-01-7] C<sub>22</sub>H<sub>37</sub>N<sub>3</sub>O<sub>16</sub> 599.54

OA07388

1mg	\$187.00
2mg	\$300.00
5mg	\$600.00



Refs: Kim JM, Roy R, Tetrahedron Lett, 1997, 38, p3487; Koganty R, Tetrahedron Lett, 1997, 38 p961; Toyokuni T, Singhal AK, Chem Soc. Rev, 1995, 231

**2-Acetamido-6-O-(a-2-N-acetylneuraminy)-2-deoxy-a-D-galactopyranosyl serine-biotin**

- STN-biotin

OA15986

Price On Application

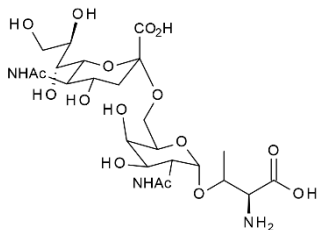
**2-Acetamido-6-O-(a-2-N-acetylneuraminy)-2-deoxy-a-D-galactopyranosyl threonine**

- STn Antigen

C<sub>23</sub>H<sub>39</sub>N<sub>3</sub>O<sub>16</sub> 613.57

OA46896

Price On Application

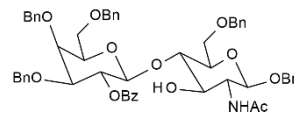
**2-Acetamido-1-N-(b-L-aspartyl)-2-deoxy-6-O-a-L-fucopyranosyl-b-D-glucopyranosylamine**

see *N*-[2-Acetamido-2-deoxy-6-O-(a-L-fucopyranosyl)-D-glucopyranosyl]-L-asparagine, OA29849 on page 13

**2-Acetamido-4-O-(2-O-benzoyl-3,4,6-tri-O-benzyl-b-D-galactopyranosyl)-1,6-di-O-benzyl-2-deoxy-b-D-glucopyranoside**C<sub>56</sub>H<sub>59</sub>NO<sub>12</sub> 938.07

OA07325

1mg	\$94.50
2mg	\$183.80
5mg	\$367.50

**O-[2-Acetamido-4,6-O-benzylidene-2-deoxy-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranosyl]-N-Fmoc-L-threonine allyl ester**

- N-Fmoc-4,6-benzylidene-2'3'4'6'-tetra-O-acetyl T Epitope, Threonyl Allyl Ester

[384346-85-4] C<sub>51</sub>H<sub>58</sub>N<sub>2</sub>O<sub>19</sub> 1003.01

OA30715

10mg	\$1350.00
25mg	\$2375.00
50mg	\$3750.00

**2-Acetamido-N-biotinyl-2-deoxy-b-D-glucopyranosylamine**

see *N*-GlcNAc-Biotin, OG60623 on page 123

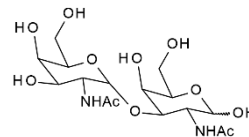
**2-Acetamido-2-deoxy-3-O-(2-acetamido-2-deoxy-a-D-galactopyranosyl)-D-galactopyranose**

- GalNAc-a-1,3-GalNAc
- Forsman Disaccharide

[62026-07-7] C<sub>16</sub>H<sub>28</sub>N<sub>2</sub>O<sub>11</sub> 424.4

OA09257

1mg	\$500.00
2mg	\$900.00
5mg	\$1600.00

**2-Acetamido-2-deoxy-6-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-3-O-(b-D-galactopyranosyl)-D-glucopyranose**

- Gal-b-1,3-(GlcNAc-b-1,6-)GalNAc

OA35391

Price On Application



## Acetamidodeo

**2-Acetamido-2-deoxy-4-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-D-glucopyranose**

- LacdiNAc
- GalNAc-b-1-4-GlcNAc

[136198-41-9] C<sub>16</sub>H<sub>28</sub>N<sub>2</sub>O<sub>11</sub> 424.4

OA44637

Price On Application

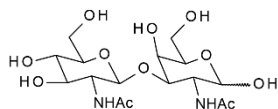
**2-Acetamido-2-deoxy-3-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-D-galactopyranose**

- GlcNAc-b-1,3-GalNAc

[95673-98-6] C<sub>16</sub>H<sub>28</sub>N<sub>2</sub>O<sub>11</sub> 424.4

OA04445

0.5mg	\$420.00
1mg	\$735.00
2mg	\$1350.00

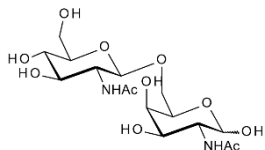
**2-Acetamido-2-deoxy-6-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-D-galactopyranose**

- 2-(Acetylamino)-6-O-[2-(acetylamino)-2-deoxy-b-D-glucopyranosyl]-2-deoxy-a-D-galactose
- GlcNAc1b-6GalNAc

[452316-31-3] C<sub>16</sub>H<sub>28</sub>N<sub>2</sub>O<sub>11</sub> 424.4

OA16498

2mg	\$493.50
5mg	\$903.00
10mg	\$1638.00



Refs: Martensson, S, et al, Eur. J. Biochem, 258, 603 (1998)

**2-Acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-4-O-[2-O-(a-L-fucopyranosyl)-b-D-galactopyranosyl]-D-glucopyranoside**

see Lewis Y tetrasaccharide, OL06521 on page 178

**2-Acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-4-O-(b-D-galactopyranosyl)-D-glucopyranoside**

see Lewis X trisaccharide, OL06490 on page 177

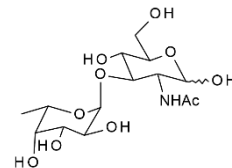
**2-Acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-D-glucopyranose**

- 3-Fucosyl GlcNAc
- 2-(Acetylamino)-2-deoxy-3-O-(6-deoxy-a-L-galactopyranosyl)-D-glucopyranose

[52630-68-9][24876-86-6] C<sub>14</sub>H<sub>25</sub>NO<sub>10</sub> 367.35

OA06139

1mg	\$85.00
2mg	\$150.00
5mg	\$250.00



Refs: Glick M C, et.al, Biochimie 2001, 83, p743

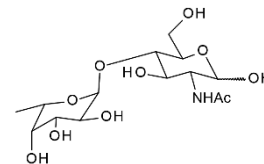
**2-Acetamido-2-deoxy-4-O-(a-L-fucopyranosyl)-D-glucopyranose**

- Fuc-a-1,4-GlcNAc

[76211-71-7] C<sub>14</sub>H<sub>25</sub>NO<sub>10</sub> 367.35

OA04447

1mg	\$85.00
2mg	\$125.00
5mg	\$231.00

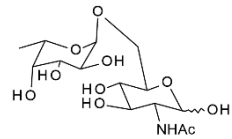
**2-Acetamido-2-deoxy-6-O-(a-L-fucopyranosyl)-D-glucopyranose**

- Fuc-a-1,6-GlcNAc

[33639-80-4] C<sub>14</sub>H<sub>25</sub>NO<sub>10</sub> 367.35

OA04444

1mg	\$125.00
2mg	\$190.00
5mg	\$390.00





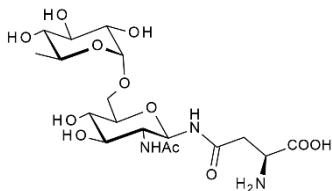
**N-[2-Acetamido-2-deoxy-6-O-(a-L-fucopyranosyl)-D-glucopyranosyl]-L-asparagine**

- Fuc-GlcNAc-Asn
- 2-Acetamido-1-N-(b-L-aspartyl)-2-deoxy-6-O-a-L-fucopyranosyl-b-D-glucopyranosylamine

[62203-19-4] C<sub>18</sub>H<sub>31</sub>N<sub>3</sub>O<sub>12</sub> 481.45

OA29849

Price On Application

**2-Acetamido-2-deoxy-4-O-(a-L-fucopyranosyl)-3-O-(b-D-glucopyranosyl)-D-glucopyranose**

see Lewis A trisaccharide, OL04541 on page 175

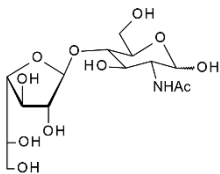
**2-Acetamido-2-deoxy-4-O-(b-D-galactofuranosyl)-D-glucopyranose**

- Gal-b-1,4-GlcNAc

C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OA04446

1mg	\$57.80
2mg	\$92.40
5mg	\$220.50



Refs: Gallo-Rodriguez C, et al, J. Org. Chem. 1996, 61, p1886

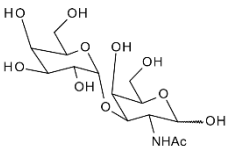
**2-Acetamido-2-deoxy-3-O-(a-D-galactopyranosyl)-D-galactopyranose**

- Gal-a-1,3-GalNAc

[60283-31-0] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OA06694

1mg	\$230.00
2mg	\$450.00
5mg	\$1025.00



Refs: Rege VP, et al, Nature 1963, 200, p532; Svennerholm L, J. Lipid Res. 1964, 5, p145

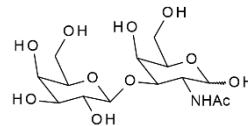
**2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-D-galactopyranose**

- Gal-b1,3-GalNAc
- Galacto-N-biose
- Thomsen-Fridenreich antigen

[20972-29-6][3554-90-3] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OA01686

1mg	\$85.00
2mg	\$160.00
5mg	\$310.00

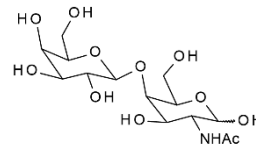
**2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-D-galactopyranose**

- Galb1-4GalNAc

[82535-18-0] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OA09634

1mg	\$120.00
2mg	\$180.00
5mg	\$350.00



Refs: Makino, Y, et al, J. Biochem, 2002, 132, p961; Chin K. et al, J. Vet. Med. Sci, 2007, 69, p193

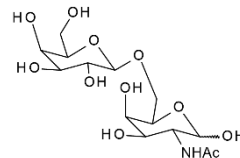
**2-Acetamido-2-deoxy-6-O-(b-D-galactopyranosyl)-D-galactopyranose**

- Gal-b-1,6-GalNAc

[209977-51-5] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OA04443

5mg	\$262.50
10mg	\$420.00
25mg	\$840.00



Refs: Hatcher VB, et al, Biochemistry, 1977, 16, p1815

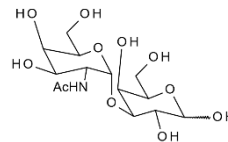
**3-O-(2-Acetamido-2-deoxy-a-D-galactopyranosyl)-D-galactopyranose**

- a-D-N-Acetyl galactosaminyl 1,3 galactose

C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.33

OA08085

1mg	\$126.00
2mg	\$210.00
5mg	\$446.30



## Acetamidodeo

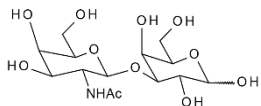
## 3-O-(2-Acetamido-2-deoxy-b-D-galactopyranosyl)-D-galactopyranose

- GalNAc1-3-Gal
- b-D-N-Acetylgalactosaminy 1-3 galactose

C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.33

OA08084

1mg	\$126.00
2mg	\$210.00
5mg	\$350.00



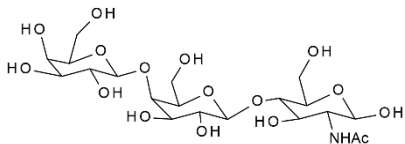
## 2-Acetamido-2-deoxy-4-O-[(4-O-b-D-galactopyranosyl)-b-D-galactopyranosyl]-D-glucopyranose

- 4-O-b-D-Galactopyranosyl]-b-D-N-acetylglucosamine

[115114-32-4] C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub> 545.5

OA07925

Price On Application



## 2-Acetamido-2-deoxy-4-O-[(4-O-b-D-galactopyranosyl)-b-D-galactopyranosyl]-D-glucopyranose

see P1-Antigen, OA09578 on page 33

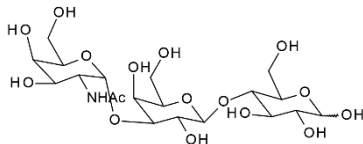
## 4-O-[3-O-(2-Acetamido-2-deoxy-a-D-galactopyranosyl)-b-D-galactopyranosyl]-D-glucopyranose

- a-D-N-Acetylgalactosaminy 1,3-galactosyl-b-1,4-glucose

C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub> 545.5

OA10409

250ug	\$65.00
500ug	\$100.00
1mg	\$170.00



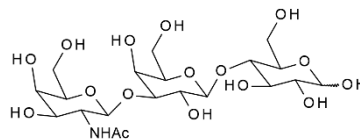
## 4-O-[3-O-(2-Acetamido-2-deoxy-b-D-galactopyranosyl)-b-D-galactopyranosyl]-D-glucose

- GalNAc-b-1,3-Gal-b-1,4-Glc

C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub> 545.49

OA10781

Price On Application



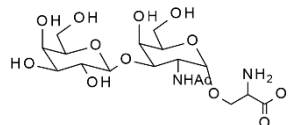
## 2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranosyl-1-O-L-serine

- Seriny T Epitope
- Seriny 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside
- 3-(O-b-D-galactosyl)-N-acetyl-a-D-galactosaminy 1-O-serine

[60280-57-1] C<sub>17</sub>H<sub>30</sub>N<sub>2</sub>O<sub>13</sub> 470.43

OA07379

0.5mg	\$300.00
1mg	\$550.00
2mg	\$1020.00



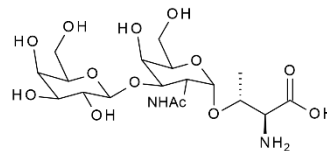
## 2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranosyl-1-O-L-threonine

- 3-O-b-D-Galactosyl-N-acetyl-a-D-galactosaminy 1-O-L-threonine
- T Epitope, Threonyl

[60280-58-2] C<sub>18</sub>H<sub>32</sub>N<sub>2</sub>O<sub>13</sub> 484.45

OA07377

1mg	\$204.80
2mg	\$315.00
5mg	\$603.80



Refs: Kim JM, Roy R, Tetrahedron Lett, 1997, 38, p3487; Qiu D, Koganty R, Tetrahedron Lett, 1997, 38, p961; Toyokuni T, Singhal AK, Chem. Soc. Rev, 1995, 231

## 2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-D-glucopyranose

see Lacto-N-biose, OL01707 on page 164

## 2-Acetamido-2-deoxy-4-O-a-D-galactopyranosyl-D-glucopyranose

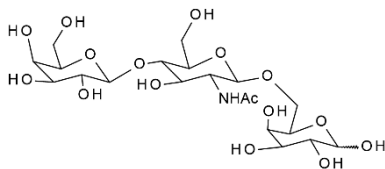
see Epi-N-Acetyl-lactosamine, OE02427 on page 90

**6-O-[2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-b-D-glucopyranosyl]-D-galactopyranose**

• Gal-b-1,4-GlcNAc-b-1,6-Gal

[20331-45-7] C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub> 545.49

OA06816	1mg	\$231.00
	2mg	\$441.00
	5mg	\$1050.00



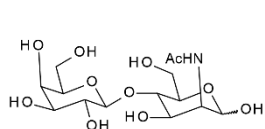
Refs: Pykari M, et al, J. Biol. Chem, 2000 275, p40057; Wu A, et.al, Glycobiol, 2006, 16, p524

**2-Acetamido-2-deoxy-6-O-(b-D-galactopyranosyl)-D-glucose**see *N-Acetylallolactosamine*, OA09397 on page 21**2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-D-mannopyranose**

• Gal(b1-4)ManNAc

[50787-11-6] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

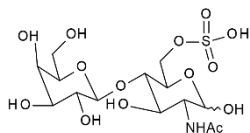
OA06499 Price On Application

**2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-6-sulfo-b-D-glucopyranose**

• 6-Su-LacNAc

C<sub>14</sub>H<sub>25</sub>NO<sub>14</sub>S 463.41

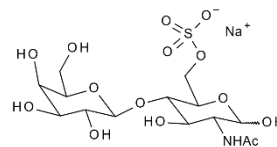
OA08186	1mg	\$500.00
	2mg	\$900.00
	5mg	\$1750.00



Refs: Bovin N.V, et.al, Mendeleev Communications 2002, 12, 6, p213

**2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-6-sulfo-D-glucopyranose sodium salt**• N-Acetyl-D-lactosmine 6-sulfate sodium salt  
• Galb-(1-4)-GlcNAc(6S)[145447-78-5] C<sub>14</sub>H<sub>24</sub>NO<sub>14</sub>S·Na 485.39

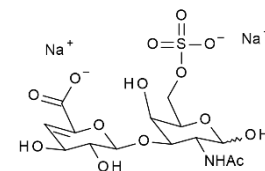
OA09703	1mg	\$210.00
	2mg	\$399.00
	5mg	\$735.00



Refs: Clarke J, et al, J. Biol. Chem, 1996, 271, p10317; Komba S, et.al, Bioorg. Med. Chem, 1996, 4, p1833

**2-Acetamido-2-deoxy-3-O-(b-D-gluco-4-enepranosyl uronic acid)-D-galactose sodium salt**see *Chondroitin disaccharide di-OS sodium salt*, OC28897 on page 64**2-Acetamido-2-deoxy-3-O-(b-D-gluco-4-enepranosyl uronic acid)-6-sulfo-D-galactopyranose disodium salt**C<sub>14</sub>H<sub>19</sub>NO<sub>14</sub>S<sub>2</sub>Na 503.34

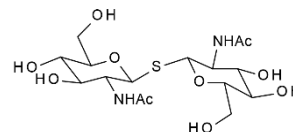
OA08783	1mg	\$47.30
	5mg	\$183.80
	10mg	\$294.00

**b-D-(2-Acetamido-2-deoxy-D-glucopyranosyl)-2-acetamido-2-deoxy-b-D-thioglucopyranoside**

• Thiodi-N-acetylglucoside

C<sub>16</sub>H<sub>28</sub>N<sub>2</sub>O<sub>10</sub>S 440.47

OA10990	5mg	\$94.50
	10mg	\$157.50
	25mg	\$315.00

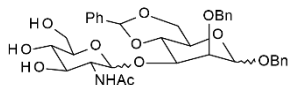
**2-Acetamido-2-deoxy-b-D-glucopyranosylaminobiotin**see *N-GlcNAc-Biotin*, OG60623 on page 123

## Acetamidodeo

**3-O-(2-Acetamido-2-deoxy-D-glucopyranosyl)-1,2-di-O-benzyl-4,6-O-benzylidene-D-mannopyranoside**C<sub>35</sub>H<sub>41</sub>NO<sub>11</sub> 651.72

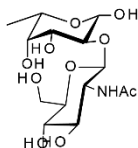
OA07400

10mg	\$89.30
25mg	\$168.00
250mg	\$1050.00

**2-O-(2-Acetamido-2-deoxy-b-D-glucopyranosyl)-L-fucopyranose**C<sub>14</sub>H<sub>25</sub>NO<sub>10</sub> 367.35

OA32130

10mg	\$5700.00
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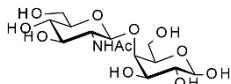
**4-O-(2-Acetamido-2-deoxy-a-D-glucopyranosyl)-D-galactopyranose**

- 4-O-[2-(Acetylamino)-2-deoxy-a-D-galactopyranosyl]-D-glucopyranose
- GlcNAc- $\alpha$ -(1-4)-Gal

[76909-76-7] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OA16438

1mg	\$312.30
2mg	\$567.80
5mg	\$1032.40

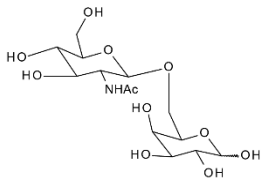


Refs: Hatheway, C, et al, Clin. Microbiol. Rev, 3, 66 (1990); Borriello, S, et al, Clin. Infect. Dis, 20, S242

**6-O-(2-Acetamido-2-deoxy-b-D-glucopyranosyl)-D-galactopyranose**[20212-77-5] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.36

OA06518

1mg	\$195.00
2mg	\$350.00
5mg	\$750.00

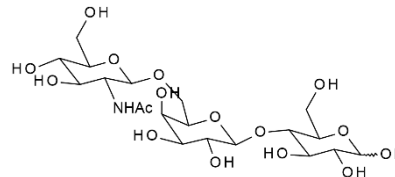
**4-O-(6-O-[2-Acetamido-2-deoxy-b-D-glucopyranosyl]-b-D-galactopyranosyl)-D-glucopyranose**

- 6'-b-GlcNAc-lactose
- 6'-b-N-Acetylglucosaminyllactose

[68665-69-0] C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub> 545.49

OA05021

10mg	\$1590.00
25mg	\$2500.00
50mg	\$3500.00

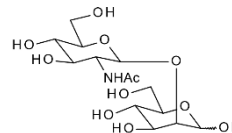
**2-O-(2-Acetamido-2-deoxy-b-D-glucopyranosyl)-D-mannopyranose**

- GlcNAc-b-1,2-Man

[34621-73-3] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OA04451

1mg	\$50.00
2mg	\$80.00
5mg	\$150.00



Refs: Bryan R. et al, J. Infect. Dis, 1999, 179, p1449; Ahmed K. et al, Med. Microbiol. Immunol, 2002,191, 5

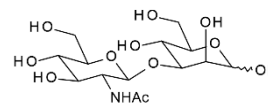
**3-O-(2-Acetamido-2-deoxy-b-D-glucopyranosyl)-D-mannopyranose**

- GlcNAc-b-1,3-Man

[210036-24-1] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

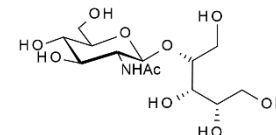
OA06738

1mg	\$65.00
2mg	\$112.00
5mg	\$225.00

**4-O-(2-Acetamido-2-deoxy-b-D-glucopyranosyl)ribitol**[21150-24-3] C<sub>13</sub>H<sub>25</sub>NO<sub>10</sub> 355.34

OA44624

1mg	\$550.00
2mg	\$990.00
5mg	\$1750.00



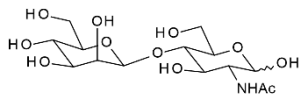
**2-Acetamido-2-deoxy-D-lactose**see *N*-Acetyl-D-lactosamine, OA08244 on page 23**2-Acetamido-2-deoxy-4-O-(β-D-mannopyranosyl)-D-glucopyranose**

• Man-β-1,4-GlcNAc

[55637-63-3][186765-90-2] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OA06652

1mg	\$400.00
2mg	\$620.00
5mg	\$1350.00

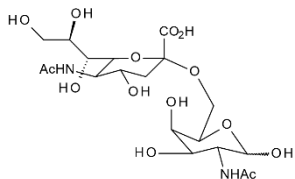
**2-Acetamido-2-deoxy-6-a-O-sialyl-D-galactopyranose**

• 6-O-a-Sialyl-2-acetamido-2-deoxy-D-galactopyranose

[72506-87-7] C<sub>19</sub>H<sub>32</sub>N<sub>2</sub>O<sub>14</sub> 512.46

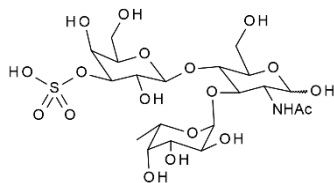
OA04844

10mg	\$1088.70
25mg	\$1633.50
50mg	\$2450.00

**2-Acetamido-2-deoxy-4-O-(3-sulfo-a-D-galactopyranosyl)-3-O-(a-L-fucopyranosyl)-D-glucopyranose**[153153-62-9] C<sub>20</sub>H<sub>35</sub>NO<sub>18</sub>S 609.55

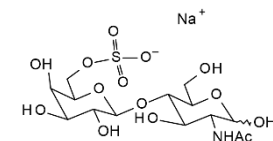
OA00739

25mg	\$2100.00
50mg	\$3150.00
100mg	\$5775.00

**2-Acetamido-2-deoxy-4-O-(6-sulfo-β-D-galactopyranosyl)-β-D-glucopyranose sodium salt**• *N*-Acetyl-lactosamine 6'-sulfate sodium saltC<sub>14</sub>H<sub>24</sub>NNaO<sub>14</sub>S 485.39

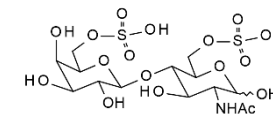
OA08362

1mg	\$275.00
2mg	\$500.00
5mg	\$975.00

**2-Acetamido-2-deoxy-4-O-(6-sulfo-β-D-galactopyranosyl)-6-sulfo-D-glucopyranose**• *N*-Acetyl-D-lactosamine 6,6'-disulfate[321897-68-1] C<sub>14</sub>H<sub>25</sub>NO<sub>17</sub>S<sub>2</sub> 543.48

OA08187

0.5mg	\$650.00
1mg	\$1155.00
2mg	\$2100.00



Refs: Hemmerich S. et al., Biochemistry, 1994, 33, p4830

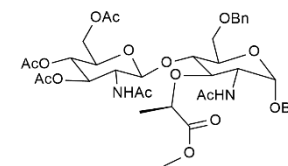
**4-O-(2-Acetamido-2-deoxy-3,4,6-tri-O-acetyl-β-D-glucopyranosyl)-1,6-di-O-benzyl-2-deoxy-α-D-muramic acid methyl ester**

• Benzyl 4-O-(2-Acetamido-2-deoxy-3,4,6-tri-O-acetyl-β-D-glucopyranosyl)-N-acetyl-α-D-muramic acid methyl ester

C<sub>40</sub>H<sub>52</sub>N<sub>2</sub>O<sub>16</sub> 816.84

OA06508

2mg	\$89.30
5mg	\$168.00
10mg	\$262.50



## Acetamidodeo

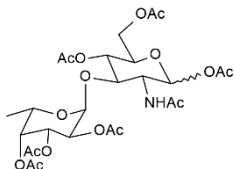
## 2-Acetamido-2-deoxy-1,4,6-tri-O-acetyl-3-O-(2,3,4-tri-O-acetyl-a-L-fucopyranosyl)-D-glucopyranose

• 2-(Acetylamino)-2-deoxy-3-O-(2,3,4-tri-O-acetyl-6-deoxy-a-L-galactopyranosyl)-D-glucopyranose 1,4,6-triacetate

[309263-13-6] C<sub>28</sub>H<sub>37</sub>NO<sub>16</sub> 619.57

OA16436

1mg \$110.00  
2mg \$199.90  
5mg \$363.40

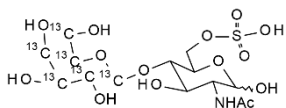


## 2-Acetamido-2-deoxy-4-O-(beta-D-[UL-13-C-6]-galactopyranosyl)-D-glucopyranose 6-sulfate

<sup>13</sup>C<sub>6</sub>C<sub>8</sub>H<sub>25</sub>NO<sub>14</sub>S 469.37

OA08512

Price On Application

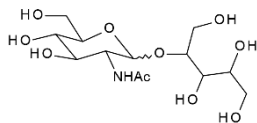


## 4-O-(2-Acetamido-2-deoxy-D-[UL-13C6]glucopyranosyl)-D-ribitol

C<sub>7</sub><sup>13</sup>C<sub>6</sub>H<sub>25</sub>NO<sub>10</sub> 361.29

OA44753

1mg \$550.00  
2mg \$1000.00  
5mg \$2125.00



## 2-O-Acetamido-1,6-di-O-acetyl-2-deoxy-4-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-D-glucopyranosyl)muramic acid

C<sub>29</sub>H<sub>42</sub>N<sub>2</sub>O<sub>18</sub> 706.65

OA63544

Price On Application



## 2-O-Acetamido-1,6-di-O-acetyl-2-deoxy-4-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-D-glucopyranosyl)muramic acid methyl ester

C<sub>30</sub>H<sub>44</sub>O<sub>18</sub>N<sub>2</sub> 720.67

OA63545

Price On Application



## 2-Acetamido-4-O-[2,4-di-O-acetyl-3,6-di-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-b-D-glucopyranosyl]-1,3,6-tri-O-acetyl-2-deoxy-b-D-glucopyranose

C<sub>52</sub>H<sub>71</sub>NO<sub>34</sub> 1254.11

OA12499

250mg \$330.00  
500mg \$525.00  
1g \$945.00



## 2-Acetamido-3,4-di-O-acetyl-6-O-[a-2-(4,7,8,9-tetra-O-acetyl-N-acetyl-D-neuraminic acid methyl ester)]-2-deoxy-a-D-galactopyranosyl Fmocthreonine

• STn Antigen (Threonine, Fmoc, peracetylated, methyl ester)

C<sub>51</sub>H<sub>63</sub>N<sub>3</sub>O<sub>24</sub> 1102.05

OA46897

25mg \$1300.00  
50mg \$1560.00  
100mg \$2600.00



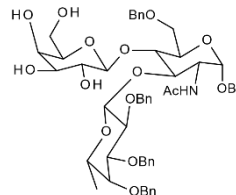
## 2-Acetamido-1,6-di-O-benzyl-3-O-(2,3,4-tri-O-benzyl-b-L-fucopyranosyl)-2-deoxy-4-O-(b-D-galactopyranosyl)-a-D-glucopyranoside

• Benzyl 2-acetamido-6-O-benzyl-3-(2,3,4-tri-O-benzyl-b-L-fucopyranosyl)-4-(b-D-galactopyranosyl)-2-deoxy-a-D-glucopyranoside

[71208-05-4] C<sub>55</sub>H<sub>65</sub>NO<sub>15</sub> 980.13

OA05717

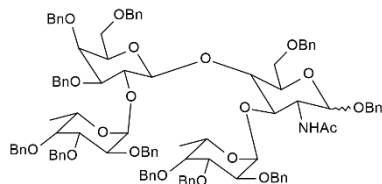
1mg \$178.50  
5mg \$420.00  
10mg \$798.00



**2-Acetamido-1,6-di-O-benzyl-3-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-4-O-[2-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-3,4,6-tri-O-benzyl-b-D-galactopyranosyl]-2-deoxy-D-glucopyranoside**C<sub>103</sub>H<sub>111</sub>NO<sub>19</sub> 1667.03

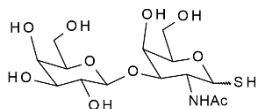
OA07324

1mg	\$94.50
2mg	\$183.80
5mg	\$367.50

**O-(Acetamido-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosylonic acid)-(2→3)-O-b-D-galactopyranosyl-(1→3)-O-a-2-acetamido-2-deoxy-D-galactopyranosyl-(1→O)-Thr-Val-Pro-Ala-Ala-Val-Val-Val-Ala**see *APF Sialoglycopeptide ammonium salt, OA58741 on page 33***2-Acetamido-3-O-(b-D-galactopyranosyl)-2-deoxy-D-thiogalactopyranose**C<sub>14</sub>H<sub>25</sub>NO<sub>10</sub>S 399.42

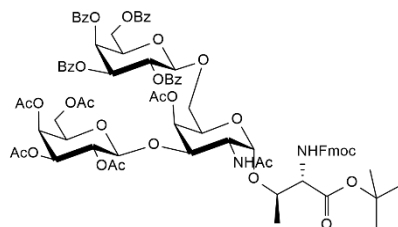
OA10922

1mg	\$262.50
2mg	\$462.00

**2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4-O-acetyl-6-O-(2,3,4,6-tetra-O-benzyl-b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranosyl-Fmoc threonine tert-butyl ester**C<sub>81</sub>H<sub>86</sub>N<sub>2</sub>O<sub>29</sub> 1551.55

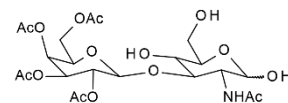
OA30755

Price On Application

**2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-D-glucopyranose**[191532-23-7] C<sub>22</sub>H<sub>33</sub>NO<sub>15</sub> 551.5

OA04455

10mg	\$189.00
50mg	\$735.00
100mg	\$1155.00

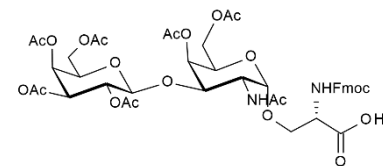
**O [2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-di-O-acetyl-2-deoxy-a-D-galactopyranosyl]-N-fluorenyloxycarbonyl-L-threonine tert. butyl ester**see *2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-di-O-acetyl-2-deoxy-a-D-galactopyranosyl-Fmoc-L-threonine tert-butyl ester, OA30754 on page 20***2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-di-O-acetyl-2-deoxy-a-D-galactopyranosyl-Fmoc-L-serine**

• Protected T Epitope

[125760-30-7] C<sub>44</sub>H<sub>52</sub>N<sub>2</sub>O<sub>21</sub> 944.88

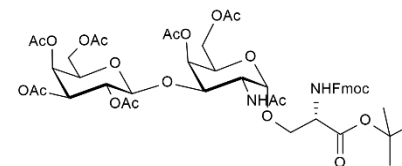
OA30753

50mg	\$1500.00
100mg	\$2080.00
250mg	\$4500.00

**2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-di-O-acetyl-2-deoxy-a-D-galactopyranosyl-Fmoc-L-serine tert-butyl ester**[658072-67-4] C<sub>48</sub>H<sub>60</sub>N<sub>2</sub>O<sub>21</sub> 1000.99

OA30751

Price On Application



## Acetamidotet

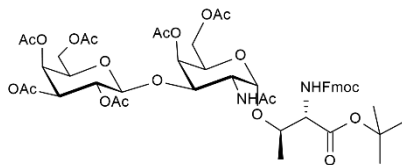
## 2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-di-O-acetyl-2-deoxy-a-D-galactopyranosyl-Fmoc-L-threonine tert-butyl ester

• O [2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-di-O-acetyl-2-deoxy-a-D-galactopyranosyl]-N-fluorenyloxycarbonyl-L-threonine tert-butyl ester

C<sub>49</sub>H<sub>62</sub>N<sub>2</sub>O<sub>21</sub> 1015.02

OA30754

100mg	\$5850.00
250mg	\$7500.00
500mg	\$8775.00

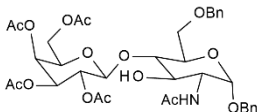


## 2-Acetamido-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-1,6-di-O-benzyl-2-deoxy-a-D-glucopyranoside

[71208-01-0] C<sub>36</sub>H<sub>45</sub>NO<sub>15</sub> 731.74

OA05716

50mg	\$168.00
100mg	\$263.00
250mg	\$525.00



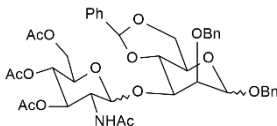
Refs: Chandrasekaran E. et al, J. Biol. Chem, 1992, 267, p23806

## 3-O-(2-Acetamido-3,4,6-tri-O-acetyl-2-deoxy-D-glucopyranosyl)-1,2-di-O-benzyl-4,6-O-benzylidene-D-mannopyranoside

C<sub>41</sub>H<sub>47</sub>NO<sub>14</sub> 777.83

OA07398

10mg	\$89.30
25mg	\$168.00
50mg	\$262.50



## 3-O-[2-(Acetamino)-2-deoxy-D-galactopyranosyl]-D-mannopyranose

[197457-62-8] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OA139084

Price On Application



## Acetobromo-D-cellobiose

see 2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-cellobiosyl bromide, OH04128 on page 145

## Acetobromo-a-D-lactoside

see 2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-lactosyl bromide, OH11281 on page 145

## Acetobromolaminaribiose

see 2,4,6-Tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-a-D-glucopyranosyl bromide, OT04669 on page 276

## Acetobromomaltose

see 2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-maltosyl bromide, OH03492 on page 146

## Acetobromomaltotriose

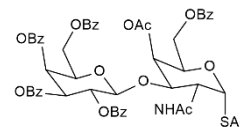
see 2,3,6-Tri-O-acetyl-4-O-(2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-a-D-glucopyranosyl)-a-D-glucopyranosyl)-a-D-glucopyranosyl bromide, OT10965 on page 277

## Acetyl 2-acetamido-4-O-acetyl-6-O-benzoyl-2-deoxy-3-O-(2,3,4,6-tetra-O-benzoyl-b-D-galactopyranosyl)-a-D-thiogalactopyranoside

[660391-80-0] C<sub>53</sub>H<sub>49</sub>NO<sub>17</sub>S 1004.02

OA10920

1mg	\$94.50
2mg	\$178.50
5mg	\$420.00

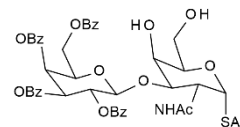


## 1-S-Acetyl-2-acetamido-3-O-(2,3,4,6-tetra-O-benzoyl-b-D-galactopyranosyl)-2-deoxy-D-thiogalactopyranose

C<sub>44</sub>H<sub>43</sub>NO<sub>15</sub>S 857.88

OA10921

1mg	\$89.30
2mg	\$168.00
5mg	\$393.80



## N-Acetyl-4-O-[2-(acetyl-amino)-2-deoxy-b-D-glucopyranosyl]-muramic acid

see 2-Acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-D-muramic acid, OA07182 on page 10

## N-Acetyl-8-O-(N-acetyl-a-neuraminy)-neuraminic acid disodium salt

see N-Acetylneuraminic acid dimer disodium salt, OA45771 on page 24



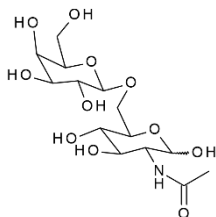
**N-Acetylalloolactosamine**

• 2-Acetamido-2-deoxy-6-O-(b-D-galactopyranosyl)-D-glucose

[50787-10-5] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OA09397

1mg	\$60.00
2mg	\$100.00
5mg	\$150.00



Refs: Paulson J.C, J. Biol. Chem, 1977, 252, p2363

**2-(Acetylamino)-6-O-[2-(acetylamino)-2-deoxy-b-D-glucopyranosyl]-2-deoxy-a-D-galactose**

see 2-Acetamido-2-deoxy-6-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-D-galactopyranose, OA16498 on page 12

**5-(Acetylamino)-9-O-(N-acetyl-a-neuraminosyl)-3,5-dideoxy-D-glycero-D-galacto-2-nonulosonic acid**

see N-Acetyl-9-O-(N-acetyl-a-neuraminosyl)-neuraminic acid, OA153295 on page 26

**2-(Acetylamino)-2-deoxy-3-O-(6-deoxy-a-L-galactopyranosyl)-D-glucopyranose**

see 2-Acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-D-glucopyranose, OA06139 on page 12

**4-O-[2-(Acetylamino)-2-deoxy-a-D-galactopyranosyl]-D-glucopyranose**

see 4-O-(2-Acetamido-2-deoxy-a-D-glucopyranosyl)-D-galactopyranose, OA16438 on page 16

**O-2-(Acetylamino)-2-deoxy-b-D-galactopyranosyl-(1→3)-O-a-D-galactopyranosyl-(1→3)-O-b-D-galactopyranosyl-(1→4)-D-glucose**

see Globosotetraose, OG157977 on page 124

**O-2-(Acetylamino)-2-deoxy-b-D-glucopyranosyl-(1-6)-O-[b-D-galactopyranosyl-(1-3)]-2-(acetylamino)-2-deoxy-a-D-galactopyranose**

see 2-Acetamido-6-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-3-O-(b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranose, OA16439 on page 10

**O-2-(Acetylamino)-2-deoxy-b-D-glucopyranosyl-(1→3)-O-b-D-galactopyranosyl-(1→4)-D-glucose**

see Lacto-N-triose II, OL09898 on page 172

**2-(Acetylamino)-2-deoxy-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-D-glucopyranose 1,3,6-triacetate**

see N-Acetyl-D-lactosamine heptaacetate, OA04001 on page 24

**2-(Acetylamino)-2-deoxy-4-O-[3,4,6-tri-O-acetyl-2-(acetylamino)-2-deoxy-b-D-glucopyranosyl]-a-D-glucopyranosyl chloride 3,6-diacetate**

see N,N'-Diacetyl-3,6,3',4',6'-penta-O-acetyl-1-chlorochitobioside, OD16690 on page 77

**2-(Acetylamino)-2-deoxy-3-O-(2,3,4-tri-O-acetyl-6-deoxy-a-L-galactopyranosyl)-D-glucopyranose 1,4,6-triacetate**

see 2-Acetamido-2-deoxy-1,4,6-tri-O-acetyl-3-O-(2,3,4-tri-O-acetyl-a-L-fucopyranosyl)-D-glucopyranose, OA16436 on page 18

**3-O-Acetyl-1,6-anhydro-2-azido-2',3'-di-O-benzyl-4',6'-O-benzylidene-2-deoxy-b-D-cellobiose**[99541-23-8] C<sub>35</sub>H<sub>37</sub>N<sub>3</sub>O<sub>10</sub> 659.68

OA46576

100mg	\$250.00
250mg	\$550.00
500mg	\$1000.00

**Acetyl-b-cyclodextrin**

OA46500

1g	\$85.00
2g	\$130.00
5g	\$250.00

**(3b,5b,12b)-3-[(O-3-O-Acetyl-2,6-dideoxy-b-D-ribo-hexopyranosyl-(14)-O-2,6-dideoxy-b-D-ribo-hexopyranosyl-(14)-2,6-dideoxy-b-D-ribo-hexopyranosyl)oxy]-12,14-dihydroxycard-20(22)-enolide**

see a-Acetyl digoxin, OA16441 on page 22

**(3b,5b,12b)-3-[(O-4-O-Acetyl-2,6-dideoxy-b-D-ribo-hexopyranosyl-(14)-O-2,6-dideoxy-b-D-ribo-hexopyranosyl-(14)-2,6-dideoxy-b-D-ribo-hexopyranosyl)oxy]-12,14-dihydroxycard-20(22)-enolide**

see b-Acetyl digoxin, OA16442 on page 22

## Acetyldigoxi

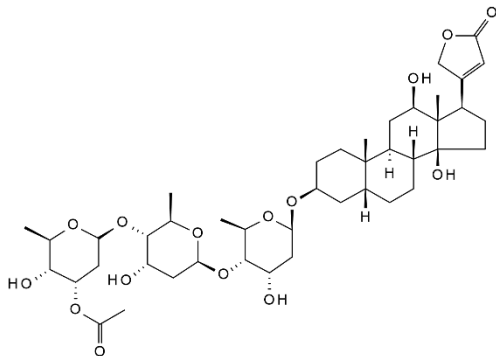
## a-Acetyl digoxin

• (3b,5b,12b)-3-[(O-3-O-Acetyl-2,6-dideoxy-b-D-ribo-hexopyranosyl-(14)-O-2,6-dideoxy-b-D-ribo-hexopyranosyl-(14)-2,6-dideoxy-b-D-ribo-hexopyranosyl)oxy]-12,14-dihydroxycard-20(22)-enolide

[5511-98-8] C<sub>43</sub>H<sub>66</sub>O<sub>15</sub> 822.98

OA16441

1mg \$578.10  
2mg \$1051.10  
5mg \$1911.00



Refs: Yoshida, F, et al, J. Med. Chem, 43, 2575 ( 2000); Turner, J, et al, Pharm. Res, 21, 68

## b-Acetyl digoxin

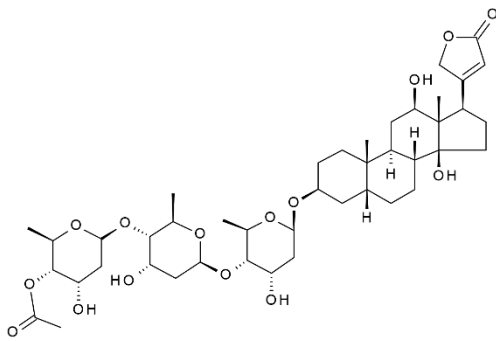
• (3b,5b,12b)-3-[(O-4-O-Acetyl-2,6-dideoxy-b-D-ribo-hexopyranosyl-(14)-O-2,6-dideoxy-b-D-ribo-hexopyranosyl-(14)-2,6-dideoxy-b-D-ribo-hexopyranosyl)oxy]-12,14-dihydroxycard-20(22)-enolide

• Digoxigenin Tridigitoxoside-b-acetate

[5355-48-6] C<sub>43</sub>H<sub>66</sub>O<sub>15</sub> 822.98

OA16442

1mg \$245.00  
2mg \$450.00  
5mg \$1025.00



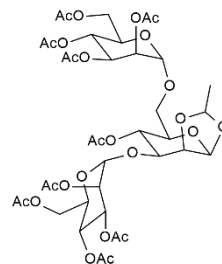
Refs: Yoshida, F, et al, J. Med. Chem, 43, 2575 ( 2000); Turner, J, et al, Pharm. Res, 21, 68

## 4-O-Acetyl-3,6-di-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-1,2-ethylidene-b-D-mannopyranose

[230953-17-0] C<sub>38</sub>H<sub>52</sub>O<sub>25</sub> 908.8

OA10349

1mg \$210.00  
2mg \$378.00  
5mg \$735.00



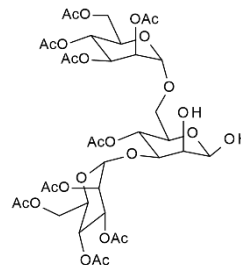
Refs: Sharp J, et al, J. Biol. Chem, 1984, 259, p11312; Cheong J, et al, Plant Cell, 1991,3,p137

## 4-O-Acetyl-3,6-di-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-D-mannopyranose

C<sub>36</sub>H<sub>50</sub>O<sub>25</sub> 882.77

OA06506

5mg \$89.30  
10mg \$168.00  
25mg \$262.50

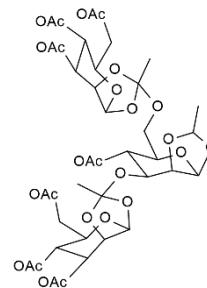


## 4-O-Acetyl-3,6-di-O-(3,4,6-tri-O-acetyl-1,2-ethylidene-b-D-mannopyranosyl)-1,2-ethylidene-b-D-mannopyranose

[230963-27-6] C<sub>38</sub>H<sub>52</sub>O<sub>25</sub> 908.8

OA10350

1mg \$99.80  
2mg \$168.00  
5mg \$262.50



Refs: Mandel D, et al, Biochemistry,1994, 33, p1157

**2-Acetyl-3-furyl-b-D-galactopyranoside**see *Galactosyl isomaltol*, OG76130 on page 107**N-Acetylgalactosamine b1-4 Lactose**see *Gangliotriose*, OG29094 on page 116**a-D-N-Acetylgalactosaminyl 1,3 galactose**

see 3-O-(2-Acetamido-2-deoxy-a-D-galactopyranosyl)-D-galactopyranose, OA08085 on page 13

**b-D-N-Acetylgalactosaminyl 1-3 galactose**

see 3-O-(2-Acetamido-2-deoxy-b-D-galactopyranosyl)-D-galactopyranose, OA08084 on page 14

**a-D-N-Acetylgalactosaminyl-1,3-galactosyl-b-1,4-glucose**

see 4-O-[3-O-(2-Acetamido-2-deoxy-a-D-galactopyranosyl)-b-D-galactopyranosyl]-D-glucopyranose, OA10409 on page 14

**N-Acetyl-D-glucosaminyl-(1-4)-N-acetylmuramic acid**

see 2-Acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-D-muramic acid, OA07182 on page 10

**6'-b-N-Acetylglucosaminylactose**

see 4-O-(6-O-[2-Acetamido-2-deoxy-b-D-glucopyranosyl]-b-D-galactopyranosyl)-D-glucopyranose, OA05021 on page 16

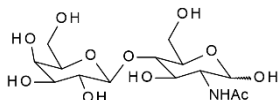
**N-Acetyl-D-lactosamine**

- LacNAc
- Galactopyranosyl-b-1,4-N-acetyl-D-glucosamine
- 2-Acetamido-2-deoxy-D-lactose

[32181-59-2] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OA08244

10mg	\$50.00
25mg	\$90.00
50mg	\$155.00



Refs: Gunnarsson A, et al, Infect. Immun. 1984, 45, p41; Loomes LM, et al, Nature 1984, 307, p560; J. Biol. Chem. 1961, 256, 10456; Anal. Chem. 1996, 68, 2573-2579; J. Am. Soc. Nephrol. 2015, 26, 2213-2221

**N-Acetyl-D-lactosamine - 200mM solution in water**[32181-59-2] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OA08778

10mg	\$50.00
25mg	\$75.00
50mg	\$200.00

**N-Acetyl-D-lactosamine-BSA (14 atom spacer)**

OA14228

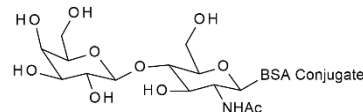
250ug	\$250.00
500ug	\$345.00
1mg	\$614.30

**N-Acetyl-D-lactosamine BSA (3 atom spacer)**

- b-D-Galactopyranosyl-(1->4)-2-acetamido-2-deoxy-D-glucose

OA00752

250ug	\$175.00
500ug	\$295.00
1mg	\$475.00

**N-Acetyl-D-lactosamine 6,6'-disulfate**

see 2-Acetamido-2-deoxy-4-O-(6-sulfo-b-D-galactopyranosyl)-6-sulfo-D-glucopyranose, OA08187 on page 17

**N-Acetyl-D-lactosamine ethyl fluorescein 5-thiourea**C<sub>37</sub>H<sub>41</sub>N<sub>5</sub>O<sub>16</sub>S 815.8

OA32190

Price On Application



**Acetyllactos****N-Acetyllactosamine-GEL**

OA03909

Price On Application

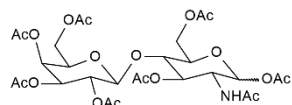
**N-Acetyl-D-lactosamine heptaacetate**

- 2-(Acetylamino)-2-deoxy-4-O-(2,3,4,6-tetra-O-acetyl-β-D-galactopyranosyl)-D-glucopyranose 1,3,6-triacetate
- N-Acetyllactosamine heptaacetate

[73208-61-4][36954-63-9] C<sub>28</sub>H<sub>39</sub>NO<sub>18</sub> 677.61

OA04001

2mg	\$50.00
5mg	\$80.00
10mg	\$120.00



Refs: Gao, Y, et al, Bioorg. Med. Chem, 13, 6151 (2005)

**N-Acetyllactosamine heptaacetate**see *N-Acetyl-D-lactosamine heptaacetate*, OA04001 on page 24**N-Acetyl-D-lactosamine-sp-biotin**C<sub>33</sub>H<sub>57</sub>N<sub>5</sub>O<sub>15</sub>S 795.9

OA32422

1mg	\$288.80
2mg	\$525.00
5mg	\$1023.80

**N-Acetyllactosamine 6'-sulfate sodium salt**see *2-Acetamido-2-deoxy-4-O-(6-sulfo-β-D-galactopyranosyl)-β-D-glucopyranose sodium salt*, OA08362 on page 17**N-Acetyl-D-lactosmine 6-sulfate sodium salt**see *2-Acetamido-2-deoxy-4-O-(β-D-galactopyranosyl)-6-sulfo-D-glucopyranose sodium salt*, OA09703 on page 15**N-Acetylneuraminic acid dimer disodium salt**

- 8-O-(N-Acetylneuraminy)-N-acetylneuraminic acid disodium salt
- N-Acetyl-8-O-(N-acetyl-a-neuraminy)-neuraminic acid disodium salt

[149331-75-9] C<sub>22</sub>H<sub>34</sub>N<sub>2</sub>O<sub>17</sub>·2Na 644.49

OA45771

10mg	\$50.00
25mg	\$100.00
50mg	\$175.00

**N-Acetyl-a-D-neuraminic acid)-(2->3)-O-β-D-galactopyranosyl-(1->4)-O-β-D-glucopyranosyl-(1->1)-(2S,3R,4E)-2-N-(7-nitrobenz-2-oxa-1,3-diazol-4-yl)aminooctanamido-4-octadecene-1,3-diol ammonium salt**see *GM3-Ganglioside labelled by NBD*, OG09793 on page 137**N-Acetylneuraminic acid hexamer disodium salt**C<sub>66</sub>H<sub>98</sub>N<sub>6</sub>O<sub>49</sub>Na<sub>6</sub> 1897.43

OA45775

2mg	\$170.00
5mg	\$300.00
10mg	\$490.00

**N-Acetylneuraminic acid pentamer disodium salt**C<sub>65</sub>H<sub>82</sub>N<sub>5</sub>O<sub>41</sub>Na<sub>5</sub> 1584.2

OA45774

2mg	\$140.00
5mg	\$200.00
10mg	\$350.00

**N-Acetylneuraminic acid tetramer sodium salt**C<sub>44</sub>H<sub>66</sub>N<sub>4</sub>O<sub>33</sub>Na<sub>4</sub> 1270.96

OA45773

2mg	\$60.00
5mg	\$110.00
10mg	\$180.00



**N-Acetylneuraminic acid trimer disodium salt**C<sub>33</sub>H<sub>50</sub>N<sub>3</sub>O<sub>25</sub>Na<sub>3</sub> 957.72

OA45772

5mg	\$70.00
10mg	\$100.00
25mg	\$195.00

**3'-N-Acetylneuraminy-N-acetylglactosamine**

see 3'-a-Sialyl-N-acetylglactosamine sodium salt, OS06484 on page 252

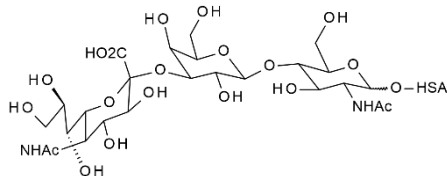
**6'-N-Acetylneuraminy-N-acetylglactosamine**

see 6'-a-Sialyl-N-acetylglactosamine sodium salt, OS09313 on page 252

**3'-N-Acetylneuraminy-N-acetylglactosamine HSA**C<sub>25</sub>H<sub>42</sub>N<sub>2</sub>O<sub>20</sub> 690.6

OA10745

1mg \$1050.00

**8-O-(N-Acetylneuraminy)-N-acetylneuraminic acid disodium salt**

see N-Acetylneuraminic acid dimer disodium salt, OA45771 on page 24

**N-Acetylneuraminy-(a2-3)-D-galactopyranosyl-(b1-3)-D-N-acetylglactosaminyl serine**

• NeuNAc(a-2-3)Gal(b1-3)GalNAc serine

C<sub>28</sub>H<sub>47</sub>N<sub>3</sub>O<sub>21</sub> 761.68

OA15271

0.5mg	\$300.00
1mg	\$525.00
2mg	\$882.00

**N-Acetylneuraminy-(a2-3)-D-galactopyranosyl-(b1-3)-D-N-acetylglactosaminyl serine-biotin**C<sub>36</sub>H<sub>58</sub>N<sub>4</sub>O<sub>23</sub>S 946.92

OA15985

Price On Application

**N-Acetylneuraminy-(a2-3)-D-galactopyranosyl-(b1-3)-[N-acetylneuraminy-(a2-6)]-D-N-acetylglactosamine**

OA61439

Price On Application

**N-Acetylneuraminy-(a2-3)-D-galactopyranosyl-(b1-3)-[N-acetylneuraminy-(a2-6)]-D-N-acetylglactosaminyl serine**C<sub>39</sub>H<sub>64</sub>N<sub>4</sub>O<sub>29</sub> 1052.94

OA15250

Price On Application

**N-Acetylneuraminy-(a2-3)-D-galactopyranosyl-(b1-3)-[N-acetylneuraminy-(a2-6)]-D-N-acetylglactosaminyl serine-biotin**

OA15983

Price On Application

**N-Acetylneuraminy-lacto-N-neo-tetraose c**

see LS-tetrasaccharide c, OL06570 on page 181

**6'-N-Acetylneuraminy-D-lactose**

see 6'-Sialyllactose sodium salt, OS04398 on page 255

**Acetylneuram****3'-N-Acetylneuraminy-D-lactose sodium salt**see *3'-Sialyllactose sodium salt, OS04397 on page 255***N-Acetylneuraminyllacto-N-tetraose a**see *LS-tetrasaccharide a sodium salt, OL03882 on page 181***N-Acetylneuraminyllacto-N-tetraose b**see *LS-tetrasaccharide b, OL03877 on page 181***N-Acetyl-9-O-(N-acetyl-a-neuraminosyl)-neuraminic acid**

• 5-(Acetylamino)-9-O-(N-acetyl-a-neuraminosyl)-3,5-dideoxy-D-glycero-D-galacto-2-nonulosonic acid

[96425-77-3] C<sub>22</sub>H<sub>38</sub>N<sub>2</sub>O<sub>17</sub> 600.52

Price On Application

OA153295

**Acetyl-6-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-2,3,4-tri-O-acetyl-D-mannopyranose**see *1,2,3,4-Tetra-O-acetyl-6-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-D-mannopyranose, OT04463 on page 270***N-Acetyl-4-O-[3,4,6-tri-O-acetyl-2-(acetylamino)-2-deoxy-b-D-glucopyranosyl]-Muramic Acid 1,6-Diacetate**see *2-Acetamido-4-O-(2-acetamido-2-deoxy-3,4,6-tri-O-acetyl-b-D-glucopyranosyl)-1,6-di-O-N-acetyl-D-muramic acid, OA05067 on page 10***Acteoside**see *Verbascoside, OV08034 on page 283***N-Acyl-neuraminy lactoses**

633.55

Price On Application

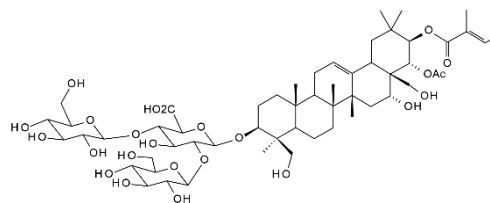
OA58486

**Aescin**

## • Escin

[6805-41-0][66795-86-6] C<sub>55</sub>H<sub>86</sub>O<sub>24</sub> 1131.26

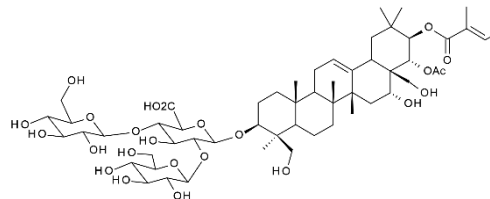
OA07948

5g \$75.00  
10g \$125.00  
25g \$210.00Refs: *Helv. Chim. Acta, 1942, 25, p1665***b-Aescin**

## • b-Escin

[11072-93-8] C<sub>55</sub>H<sub>86</sub>O<sub>24</sub> 1131.26

OA10870

1g \$95.00  
2g \$150.00  
5g \$250.00**Aescin monosodium salt**[20977-05-3] C<sub>55</sub>H<sub>86</sub>NaO<sub>24</sub> 1154.25

OA137562

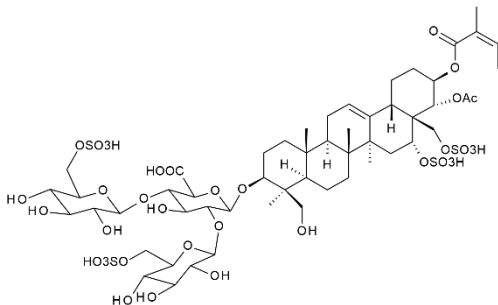
100mg \$50.00  
250mg \$92.50  
500mg \$150.00

## Aescin polysulphate sodium salt

C<sub>53</sub>H<sub>82</sub>O<sub>36</sub>S<sub>4</sub> 1423.46

OA11465

250g	\$787.50
500g	\$1315.00
1kg	\$2100.00

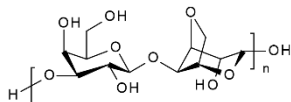


## Agar

[9002-18-0] (C<sub>12</sub>H<sub>18</sub>O<sub>9</sub>)<sub>n</sub>

OA39737

250g	\$85.00
500g	\$150.00
1Kg	\$275.00

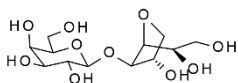


## Agarodiitol

C<sub>12</sub>H<sub>22</sub>O<sub>10</sub> 326.3

OA45722

5mg	\$375.00
10mg	\$550.00
25mg	\$1125.00



## Agaroheptaose

C<sub>42</sub>H<sub>66</sub>O<sub>33</sub> 1098.95

OA44629

1mg	\$65.00
2mg	\$98.00
5mg	\$195.00



## Agaronaose

C<sub>54</sub>H<sub>84</sub>O<sub>42</sub> 1405.22

OA44599

10mg	\$395.00
25mg	\$650.00
50mg	\$950.00



## Agaropentaose

C<sub>30</sub>H<sub>48</sub>O<sub>24</sub> 792.69

OA44598

1mg	\$65.00
2mg	\$96.00
5mg	\$190.00



## Agarotriose

[155015-96-6] C<sub>18</sub>H<sub>30</sub>O<sub>15</sub> 486.42

OA44597

1mg	\$68.00
2mg	\$108.00
5mg	\$215.00



## Agaroundecaose

C<sub>68</sub>H<sub>102</sub>O<sub>5</sub> 975.51

OA44600

10mg	\$395.00
25mg	\$650.00
50mg	\$950.00



## Agri-mek

see *Avermectin B1*, OA16898 on page 37

## Akebiasaponin PK

see *Hederacoside C*, OH32563 on page 140

**Albiflorin****Albiflorin**[39011-90-0] C<sub>23</sub>H<sub>28</sub>O<sub>11</sub> 480.46

OA10410

10mg	\$80.00
25mg	\$160.00
50mg	\$272.00



Refs: Tetrahedron, 1972, 28, p4309

**Allolactose**

see 6-O-(b-D-Galactopyranosyl)-D-glucopyranose, OG09259 on page 105

**Allosamidin**[103782-08-7] C<sub>25</sub>H<sub>42</sub>N<sub>4</sub>O<sub>14</sub> 622.62

OA10112

Price On Application

**Allyl b-D-lactose**

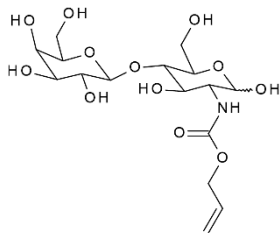
OA59631

1g	\$190.00
2g	\$350.00
5g	\$625.00

**N-Allyloxycarbonyl-b-lactosamine**[209977-55-9] C<sub>16</sub>H<sub>27</sub>NO<sub>12</sub> 425.38

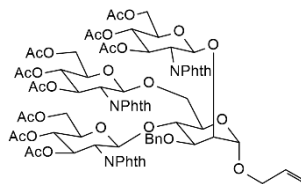
OA05136

25mg	\$89.50
50mg	\$168.00
100mg	\$263.00

**Allyl 2,4,6-tri-O-(3,4,6-tri-O-acetyl-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-a-D-mannopyranoside**C<sub>76</sub>H<sub>79</sub>N<sub>3</sub>O<sub>33</sub> 1562.44

OA10950

25mg	\$79.00
50mg	\$136.50
100mg	\$242.00

**1-Amidino-3-b-D-ribofuranosylurea monopicrate**

see 1-b-D-Ribofuranosyl-3-guanylurea picrate, OR63453 on page 248

**4-Aminobutyl 2-O-(a-D-mannopyranosyl)-a-D-mannopyranoside**

OA44964

Price On Application

**4-Aminobutyl 3-O-(a-D-mannopyranosyl)-a-D-mannopyranoside**

OA44965

Price On Application

**4-Aminobutyl 6-O-(a-D-mannopyranosyl)-a-D-mannopyranoside**

OA44966

Price On Application





**4-Aminobutyl 1,3-a-1,6-a-D-mannotriose**

OA44967

Price On Application

**6-Amino-6-deoxy-a-cyclodextrin hydrochloride**

• Hexakis-(6-amino-6-deoxy)-a-cyclodextrin hexahydrochloride

[30899-95-7][68779-95-3] C<sub>36</sub>H<sub>66</sub>N<sub>6</sub>O<sub>24</sub>·6HCl 1185.7

OA44650

1g	\$545.00
2g	\$1030.00
5g	\$2050.00

**6-Amino-6-deoxy-b-cyclodextrin hydrochloride**

• Heptakis-(6-amino-6-deoxy)-b-cyclodextrin heptahydrochloride

[30754-24-6][65024-90-0] C<sub>42</sub>H<sub>77</sub>N<sub>7</sub>O<sub>28</sub>·7HCl 1383.32

OA44672

1g	\$495.00
2g	\$900.00
5g	\$1725.00

**6-Amino-6-deoxy-gamma-cyclodextrin hydrochloride**

• Octakis-(6-amino-6-deoxy)-γ-cyclodextrin octahydrochloride

[156297-62-0][171283-79-7] C<sub>48</sub>H<sub>88</sub>N<sub>8</sub>O<sub>32</sub>·8HCl 1580.93

OA44687

1g	\$550.00
2g	\$1050.00
5g	\$2000.00

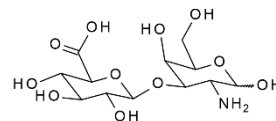
**4-O-(2-Amino-2-deoxy-alpha-D-glucopyranosyl)-2-deoxy-D-streptomine**see *Paromamine*, OP31113 on page 240**2-Amino-2-deoxy-3-O-(b-D-glucopyranuronosyl)-D-galactopyranose**

• Chondrosine

[499-14-9] C<sub>12</sub>H<sub>21</sub>NO<sub>11</sub> 355.3

OA10113

10mg	\$225.00
25mg	\$420.00
50mg	\$630.00

**6-Amino-6-deoxy-D-lactose**

OA76667

Price On Application

**6-Amino-6-deoxy-D-lactosylamine**

OA76668

Price On Application

**2-Amino-2-deoxy-3-O-b-D-galactopyranosyl-D-glucose hydrochloride**see *Iso-lactosamine HCl*, OI61725 on page 158**5-O-(5-Amino-5-deoxy-a-D-ribofuranosyl)-1-N-[(S)-4-amino-2-hydroxybutanoyl]paromamine**

OA31194

Price On Application



## Aminodeoxyri

## 5-O-(5-Amino-5-deoxy-b-D-ribofuranosyl)-1-N-[(S)-4-amino-2-hydroxy-butanoyl]paromamine

OA32030

Price On Application



## 2-Aminoethyl 3-O-(a-D-galactopyranosyl)-b-D-galactopyranoside

[1072909-64-8] C<sub>14</sub>H<sub>27</sub>NO<sub>11</sub> 385.36

OA46574

Price On Application

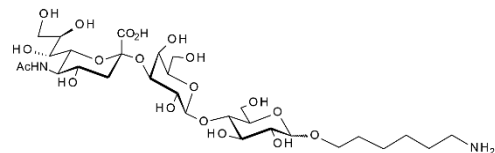


## 1-O-Aminohexyl 3'-sialyllactose

C<sub>29</sub>H<sub>52</sub>N<sub>2</sub>O<sub>19</sub> 732.73

OA32150

10mg	\$450.00
25mg	\$840.00
50mg	\$1200.00

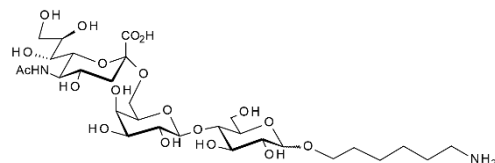


## 1-O-Aminohexyl 6'-sialyllactose

C<sub>29</sub>H<sub>52</sub>N<sub>2</sub>O<sub>19</sub> 732.73

OA32151

10mg	\$650.00
25mg	\$1150.00
50mg	\$1650.00



## 6-Aminomethyl-6-deoxy-a-cyclodextrin

• Hexakis-(6-aminomethyl-6-deoxy)-a-cyclodextrin

C<sub>42</sub>H<sub>78</sub>N<sub>6</sub>O<sub>24</sub> 1051.09

OA44649

Price On Application



## 6-Aminomethyl-6-deoxy-b-cyclodextrin

• Heptakis-(6-aminomethyl-6-deoxy)-b-cyclodextrin

C<sub>49</sub>H<sub>91</sub>N<sub>7</sub>O<sub>28</sub> 1226.28

OA44671

Price On Application



## 6-aminomethyl-6-deoxy-gamma-cyclodextrin

• Octakis-(6-aminomethyl-6-deoxy)-γ-cyclodextrin

C<sub>55</sub>H<sub>104</sub>N<sub>8</sub>O<sub>32</sub> 1389.45

OA44692

Price On Application



## 4-Aminophenyl 2-O-(a-D-mannopyranosyl)-a-D-mannopyranoside

OA44960

Price On Application



## 4-Aminophenyl 3-O-(a-D-mannopyranosyl)-a-D-mannopyranoside

OA44961

Price On Application



**4-Aminophenyl 6-O-( $\alpha$ -D-mannopyranosyl)- $\alpha$ -D-mannopyranoside**

OA44962

Price On Application

**4-Aminophenyl 1,3- $\alpha$ -1,6- $\alpha$ -D-mannotriose**

OA44963

Price On Application

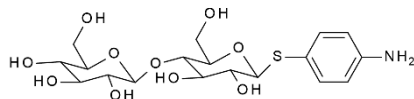
**4-Aminophenyl b-D-thiocellobiose**

• APTC

[68636-49-7] C<sub>18</sub>H<sub>27</sub>NO<sub>10</sub>S 449.47

OA04511

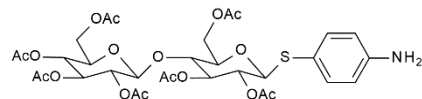
Price On Application



Refs: Piyachomkwan K, et al, Carbohydr. Res. 1997, 303, p255

**4-Aminophenyl 2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-thioglucopyranoside**[60515-61-9] C<sub>32</sub>H<sub>41</sub>NO<sub>17</sub>S 743.73

OA05364

10mg  
25mg  
50mg\$89.30  
\$168.00  
\$262.50

Refs: Piyachomkwan K, et al, Carbohydr. Res. 1997, 303, p255

**3-Aminopropyl b-D-lactose**[273937-97-6] C<sub>15</sub>H<sub>29</sub>O<sub>11</sub>N 399.39

OA59630

250mg  
500mg  
1g\$75.00  
\$135.00  
\$240.00**Aminosidine**

• Paromomycin

[7542-37-2]

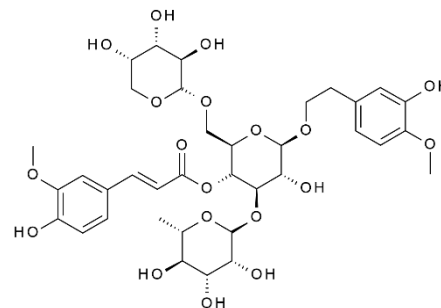
OA11590

Price On Application

**D-Amygdalin**see *D-Mandelonitrile-b-gentiobioside*, OM05087 on page 188**Amygdalose**see *b-D-Gentiobiose*, OG05175 on page 116**Amyloheptaose**see *Maltoheptaose*, OM06868 on page 183**Anemarsaponin A3**see *Timosaponin A-III*, OT10477 on page 273**aNeu5Ac(2-3)bDGalp(1-4)bDGlc(1-1)Cer linked 7-nitrobenz-2-oxa-1,3-diazole**see *GM3-Ganglioside labelled by NBD*, OG09793 on page 137**Angoroside C**

[115909-22-3]

OA44166

2mg \$56.00  
5mg \$80.00  
10mg \$140.00

## Anhydrocello

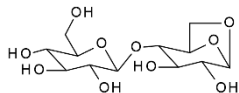
## 1,6-Anhydro-b-D-cellobiose

- Cellobiosan
- 4-O-(b-D-Glucopyranosyl)-1,6-anhydro-D-glucopyranose

[35405-71-1] C<sub>12</sub>H<sub>20</sub>O<sub>10</sub> 324.28

OA07141

500mg	\$60.00
1g	\$105.00
2g	\$190.00



Refs: Tejima S, et.al, Chem. Pharm. Bull, 1972, 20, p2036



## 1,6-Anhydro-4-O-b-D-galactopyranosyl-b-D-glucopyranose

- 1,6-Anhydro-b-lactose
- Lactosan

[34395-01-2] C<sub>12</sub>H<sub>20</sub>O<sub>10</sub> 324.28

OA157483

5mg	\$1375.00
10mg	\$1950.00



## 1,6-Anhydro-b-D-cellobiose hexaacetate

see 2,3,2',3',4',6'-Hexa-O-acetyl-1,6-anhydro-b-D-cellobiose, OH08980 on page 149

## 1,6-Anhydro-b-D-cellopenteose

- Cellopentaosan

[122274-98-0] C<sub>30</sub>H<sub>50</sub>O<sub>25</sub> 810.7

OA46588

1mg	\$163.00
2mg	\$300.00
5mg	\$680.00



## 1,6-Anhydro-3-O-b-D-glucopyranosyl-b-D-glucopyranose

Price On Application

OA158513



## 1,6-Anhydro-b-D-celotriose

[78797-67-8] C<sub>18</sub>H<sub>30</sub>O<sub>15</sub> 486.42

OA46423

1mg	\$75.00
2mg	\$112.00
5mg	\$180.00



## 1,6-Anhydro-4-O-a-D-glucopyranosyl-b-D-glucopyranose

see Maltosan, OM16386 on page 184

## 1,5-Anhydro-2-deoxy-4-(O-b-D-glucopyranosyl)-D-arabino-hex-1-enitol

see D-Cellobial, OC14037 on page 57

## 1,5-Anhydro-2-deoxy-4-O-(2,3,4,6-tetra-O-acetyl-a-D-glucopyranosyl)-D-arabino-hex-1-enitol diacetate

see Hexa-O-acetylmaltal, OH03730 on page 150

## 1,6-Anhydro-2,3-di-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-a-D-glucopyranosyl)-b-D-glucopyranose

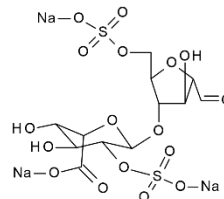
see 2,3,2',3',4',6'-Hexa-O-acetyl-1,6-anhydro-b-D-maltose, OH35390 on page 149

## 2,5-Anhydro-4-O-(a-L-idopyranosyluronic acid 2-sulfate)-D-mannofuranose 6-sulfate trisodium salt

C<sub>12</sub>H<sub>15</sub>O<sub>17</sub>S<sub>2</sub>Na<sub>3</sub> 564.34

OA07447

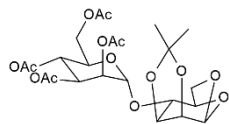
1mg	\$89.30
2mg	\$168.00
5mg	\$262.50



**1,6-Anhydro-2,3-O-isopropylidene-4-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-b-D-mannopyranose**[67591-05-3] C<sub>23</sub>H<sub>32</sub>O<sub>14</sub> 532.5

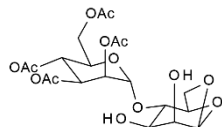
OA09581

5mg	\$99.80
10mg	\$178.50
25mg	\$394.00

**1,6-Anhydro-b-lactose**see *1,6-Anhydro-4-O-b-D-galactopyranosyl-b-D-glucopyranose*, OA157483 on page 32**1,6-Anhydro-b-D-maltose**see *Maltosan*, OM16386 on page 184**1,6-Anhydro-4-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-b-D-mannopyranose**[67650-35-5] C<sub>20</sub>H<sub>28</sub>O<sub>14</sub> 492.44

OA09579

2mg	\$84.00
5mg	\$157.50
10mg	\$231.00

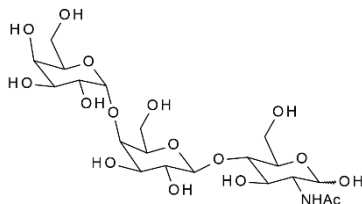
**P1-Antigen**

- Gal-a1,4-Gal-b1,4-GlcNAc
- 2-Acetamido-2-deoxy-4-O-[(4-O-b-D-galactopyranosyl)-b-D-galactopyranosyl]-D-glucopyranose

C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub> 545.49

OA09578

500ug	\$135.00
1mg	\$189.00

**T-Antigen-APE-HSA**

OA06043

Price On Application

**T-antigen-HSA**

OA58472

250ug	\$300.00
500ug	\$450.00
1mg	\$700.00

**APF Sialoglycopeptide ammonium salt**

- O-(Acetamido-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosylonic acid)-(2→3)-O-b-D-galactopyranosyl-(1→3)-O-a-2-acetamido-2-deoxy-D-galactopyranosyl-(1→O)-Thr-Val-Pro-Ala-Ala-Val-Val-Val-Ala
- NeuNAc-a(2→3)-Gal-b(1→3)-GalNAc-a-Thr-Val-Pro-Ala-Ala-Val-Val-Val-Ala

C<sub>63</sub>H<sub>107</sub>N<sub>11</sub>O<sub>29</sub> 1482.58

OA58741

50ug \$295.00

**Apigenin-7-(2-O-apiosylglucoside)**see *Apiin*, OA08108 on page 34**Apigenin 7-O-(2G-rhamnosyl)gentiobioside**[174284-20-9] C<sub>33</sub>H<sub>40</sub>O<sub>19</sub> 740.66

OA74544

5mg	\$86.00
10mg	\$150.00
25mg	\$300.00



**Apigeninneoh****Apigenin-7-neohesperidoside**

• Rhoifolin

[17306-46-6] C<sub>27</sub>H<sub>30</sub>O<sub>14</sub> 578.52

OA65402

5mg	\$60.00
10mg	\$100.00
25mg	\$175.00

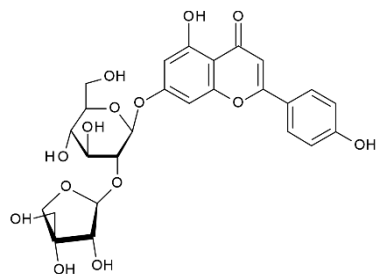
**Apigenin-7-Rutinoside**see *Isorhoifolin*, OI65502 on page 160**Apiin**

- Apigenin-7-(2-O-apiosylglucoside)
- 7-[2-O-(Apio-b-D-furanosyl)-b-D-glucopyranosyl]oxy]-5-hydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one

[26544-34-3] C<sub>26</sub>H<sub>28</sub>O<sub>14</sub> 564.5

OA08108

2mg	\$64.00
5mg	\$125.00
10mg	\$180.00

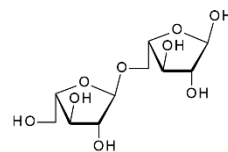
Refs: *Acta Phytochimica*, 1925, 2, p129

7-[2-O-(Apio-b-D-furanosyl)-b-D-glucopyranosyl]oxy]-5-hydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one

see *Apiin*, OA08108 on page 34**APTC**see *4-Aminophenyl b-D-thiocellobiose*, OA04511 on page 31**1,5-a-L-Arabinobiose**[78088-21-8] C<sub>10</sub>H<sub>18</sub>O<sub>9</sub> 282.24

OA32461

10mg	\$99.80
25mg	\$194.50
50mg	\$262.50



(3b,12b)-20-[(6-O-a-L-Arabinofuranosyl-b-D-glucopyranosyl)oxy]-12-hydroxydammar-24-en-3-yl 2-O-(b-D-glucopyranosyl)-b-D-glucopyranoside

see *Ginsenoside Rc*, OG09295 on page 119**3^a-3-L-Arabinofuranosyl-xylotetraose**

• XA3XX

[84666-93-3] C<sub>25</sub>H<sub>42</sub>O<sub>21</sub> 678.59

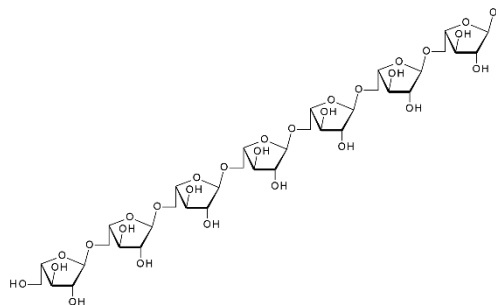
OA61667

5mg	\$70.00
10mg	\$120.00
25mg	\$195.00

**1,5-a-L-Arabinheptaose**C<sub>35</sub>H<sub>58</sub>O<sub>29</sub> 942.82

OA32466

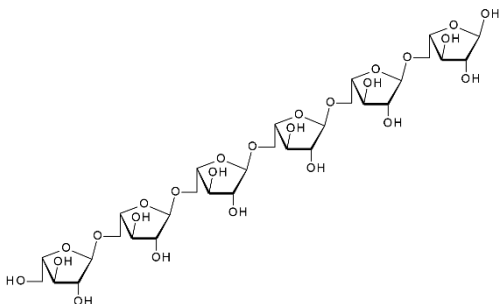
5mg	\$99.80
10mg	\$183.80
25mg	\$341.50



**1,5-a-L-Arabinohexaose**[190852-26-7] C<sub>30</sub>H<sub>50</sub>O<sub>25</sub> 810.7

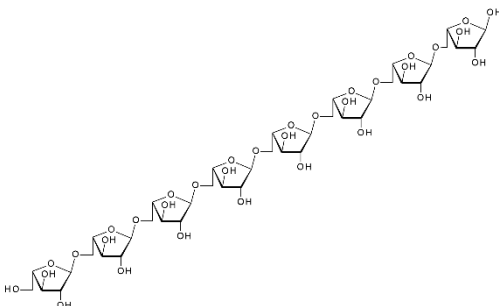
OA32465

10mg	\$157.50
20mg	\$262.60
50mg	\$514.50

**1,5-a-L-Arabinooctaose**C<sub>40</sub>H<sub>66</sub>O<sub>33</sub> 1074.93

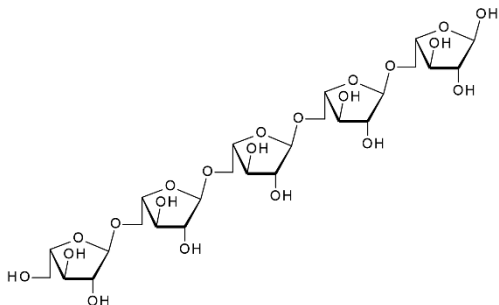
OA32467

5mg	\$152.30
10mg	\$262.50
20mg	\$472.60

**1,5-a-L-Arabinopentaose**[190852-25-6] C<sub>25</sub>H<sub>42</sub>O<sub>21</sub> 678.59

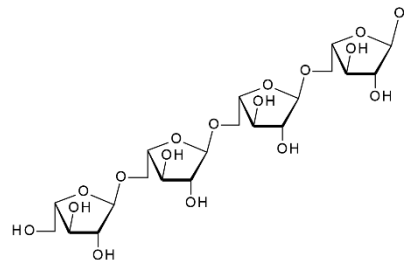
OA32464

10mg	\$131.30
25mg	\$262.50
50mg	\$420.00

**(3b,12b)-20-[(6-O-a-L-Arabinopyranosyl-b-D-glucopyranosyl)oxy]-12-hydroxydammar-24-en-3-yl 2-O-(b-D-glucopyranosyl)-b-D-glucopyranoside**see *Ginsenoside Rb2*, *OG09287* on page 118**1,5-a-L-Arabinotetraose**[190852-24-5] C<sub>20</sub>H<sub>34</sub>O<sub>17</sub> 546.47

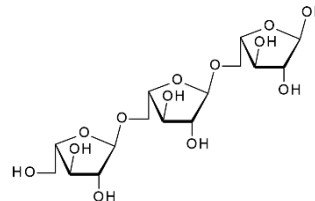
OA32463

10mg	\$131.30
25mg	\$262.50
50mg	\$420.00

**1,5-a-L-Arabinotriose**[89315-59-3] C<sub>15</sub>H<sub>26</sub>O<sub>13</sub> 414.36

OA32462

10mg	\$99.80
25mg	\$194.50
50mg	\$262.50

**Arasaponin E1**see *Ginsenoside Rb1*, *OG09288* on page 118**Asialo,agalacto,bi-antennary N-linked glycan**see *NGA2 N-Glycan*, *ON01667* on page 233**Asialo,agalacto,bisected,bi-antennary N-linked glycan**see *NGA2B N-Glycan*, *ON10162* on page 233**Asialo,agalacto,bisected,fucosylated bi-antennary N-linked glycan**see *NGA2FB N-Glycan*, *ON10169* on page 232

## Asialoagalac

## Asialo, agalacto, bisected pentaenanny

see NGA5B N-Glycan, ON10172 on page 234

## Asialo, agalacto, bisected tetraantenary N-linked glycan

see NGA4B N-Glycan, ON28967 on page 234

## Asialo, agalacto, bisected, tri-antennary N-linked glycan

see NGA3B N-Glycan, ON10167 on page 233

## Asialo, agalacto, core-fucosylated bi-antennary N-linked glycan

see NGA2F N-Glycan, ON10163 on page 232

## Asialo, agalacto, core-fucosylated, bisected, bi-antennary N-linked glycan

see FA2B N-Glycan, OF15888 on page 93

## Asialo, agalacto, fucosylated, tetraantenary N-linked glycan

see NGA4F N-Glycan, ON28966 on page 233

## Asialo, agalacto, fucosylated triantennary N-linked glycan

see NGA3F N-Glycan, ON28970 on page 233

## Asialo, agalacto, tetra-antennary N-linked glycan

see NGA4 N-Glycan, ON10166 on page 234

## Asialo, agalacto, tri-antennary N-linked glycan

see NGA3 N-Glycan, ON10161 on page 233

## Asialo-, bi-antennary N-linked glycan

see A2G1 N-Glycan, OA15890 on page 117

## Asialo, core fucosylated, bi-antennary N-linked glycan

see FA2G1 N-Glycan, OF15889 on page 93

## Asialo, galactosylated, bi-antennary N-linked Glycan

see NA2 N-Glycan, ON10165 on page 226

## Asialo, galactosylated, bisected, bi-antennary N-linked glycan,

see NA2B N-Glycan, ON15857 on page 226

## Asialo, galactosylated, fucosylated, bi-antennary N-linked glycan

see NA2F N-Glycan, ON10170 on page 225

## Asialoganglioside-GM2

see GA2-Ganglioside, OG16402 on page 100

## Asialo-GM1-pentasaccharide-APD-HSA

OA06036

Price On Application



## Asialo-GM1-tetrasaccharide

see Gangliotetraose, OG03927 on page 116

## Asialo-GM2-trisaccharide

see Gangliotriose, OG29094 on page 116

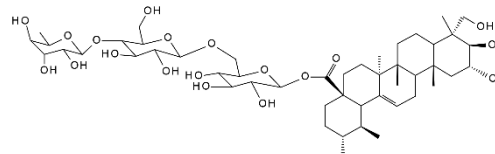
## Asiaticoside

• Madecassol

[16830-15-2] C<sub>48</sub>H<sub>78</sub>O<sub>19</sub> 959.13

OA08294

500mg	\$55.00
1g	\$85.00
2g	\$130.00



Refs: Yocsook C, et al, Phytomedicine, 2000, 6, p411; Medda S, et al, Ind. J. Biochem. Biophys, 1995, 32, p147; Mook-Jung I, et al, J. Neurosci. Res, 1999, 58, p417

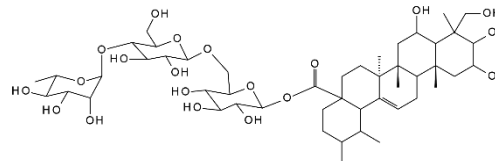
## Asiaticoside A

• Madecassoside

[34540-22-2] C<sub>48</sub>H<sub>78</sub>O<sub>20</sub> 975.12

OM08291

25mg	\$75.00
50mg	\$125.00
100mg	\$175.00



Refs: Bull. Soc. Chim. Fr, 1967, 6, p1888



## Asperuloside

[14259-45-1] C<sub>18</sub>H<sub>22</sub>O<sub>11</sub> 414.36

OA35386

Price On Application



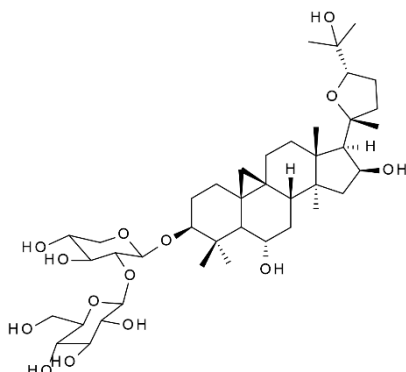
## Astragaloside III

• (3b,6a,16b,20R,24S)-20,24-Epoxy-6,16,25-trihydroxy-9,19-cyclolanostan-3-yl12-O-b-D-glucopyranosyl-b-D-xylopyranoside

[84687-42-3] C<sub>41</sub>H<sub>68</sub>O<sub>14</sub> 784.97

OA09408

1mg	\$84.00
2mg	\$105.00
5mg	\$189.00



Refs: Chem. Pharm. Bull., 1983, 31, p709



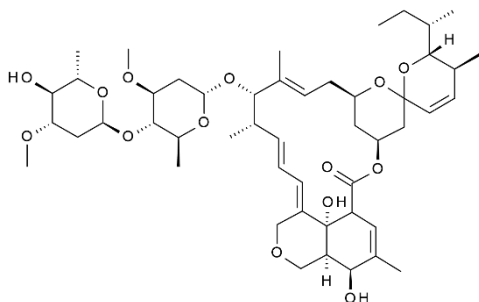
## Avermectin B1

- MK-936
- Agri-mek

[71751-41-2] C<sub>49</sub>H<sub>74</sub>O<sub>14</sub> 887.1

OA16898

500mg	\$70.00
1g	\$125.00
2g	\$235.00



Refs: Wang, S, et al, Prog. Clin. Biol. Res, 97, 373 (1982); Greenblatt, J.A, et al, J. Agric. Entomol, 3, 233 (1986); Drexler, G, et al, Eur. J. Pharmacol, 99, 269 (1984)



## Azacitidine Related Compound C

see 1-b-D-Ribofuranosyl-3-guanyurea picrate, OR63453 on page 248

## 6-Azido-6-deoxy-a-cyclodextrin

see Hexakis-(6-azido-6-deoxy)-a-cyclodextrin, OH46506 on page 150

## 6-Azido-6-deoxy-b-cyclodextrin

[98169-85-8] C<sub>42</sub>H<sub>68</sub>N<sub>3</sub>O<sub>34</sub> 1160

OA44686

Price On Application



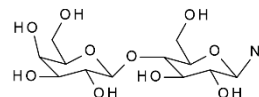
## 1-Azido-1-deoxy-b-D-lactopyranoside

• b-Lactosyl azide

[69266-16-6] C<sub>12</sub>H<sub>21</sub>N<sub>3</sub>O<sub>10</sub> 367.31

OA05079

100mg	\$158.00
250mg	\$262.50
500mg	\$450.00



## 7-[[2-Azido-2-deoxy-4,6-O-[phenylmethylene]-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranosyl]oxy]-4-methyl-2H-1-benzopyran-2-one

see 4-Methylumbelliferyl 2-azido-2-deoxy-4,6-O-phenylmethylene-a-D-galactopyranoside, OM16472 on page 219

## 7-[[2-Azido-2-deoxy-4,6-O-[(S)-phenylmethylene]-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranosyl]oxy]-4-methyl-2H-1-benzopyran-2-one

see 4-Methylumbelliferyl 2-azido-2-deoxy-3-O-(tetra-O-acetyl-b-D-galactopyranosyl)-4,6-O-benzylidene-a-D-galactopyranoside, OM16471 on page 219

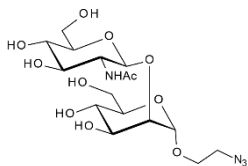
## Azidoethylac

## 2-Azidoethyl 2-acetamido-2-deoxy-3-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-b-D-glucopyranoside

C<sub>18</sub>H<sub>31</sub>N<sub>5</sub>O<sub>11</sub> 493.47

OA34880

Price On Application



## 2-Azidoethyl 2-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-a-D-mannopyranoside

C<sub>18</sub>H<sub>28</sub>N<sub>4</sub>O<sub>11</sub> 452.41

OA34879

Price On Application



## 1-(3'-Azidopropyl)-2-deoxy-4-O-[3-O-(p-phenoxybenzyl)-b-D-galactopyranosyl]-2-phthalimido-b-D-glucopyranoside

OA74915

Price On Application



## 1-(3'-Azidopropyl)-3,6-di-O-acetyl-2-deoxy-4-O-[2,4,6-tri-O-acetyl-3-O-(p-phenoxybenzyl)-b-D-galactopyranosyl]-2-phthalimido-b-D-glucopyranoside

OA75010

Price On Application



## O-b-D-Galactopyranosyl-(1→6)-O-b-D-galactopyranosyl-(1→6)-O-b-D-galactopyranosyl-(1→4)-D-galactose

see 1,4-b-Galactotetraose, OG156981 on page 108

## O-b-D-Galactopyranosyl-(1→6)-O-b-D-galactopyranosyl-(1→6)-D-galactose

see 1,6-b-Galactotriose, OG61742 on page 109

## O-b-D-Glucopyranosyl-(1→4)-O-b-D-glucopyranosyl-(1→4)-D-Gluconic acid

see Cellotronic acid, OC61666 on page 60

## 6'-O-Benzoyl-2,3,6,3',4,-penta-O-acetyl-sucrose

OB46827

Price On Application

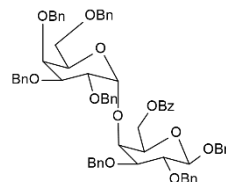


## 6-O-Benzoyl-1,2,3-tri-O-benzyl-4-O-(2,3,4,6-tetra-O-benzyl-a-D-galactopyranosyl)-b-D-galactopyranoside

C<sub>68</sub>H<sub>68</sub>O<sub>12</sub> 1077.26

OB04640

2mg	\$89.30
5mg	\$168.00
10mg	\$315.00



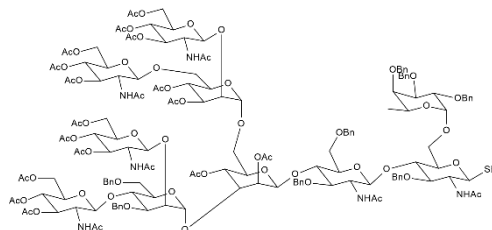
Refs: Race RR et al, Bood Groups in Man, 6th Edn. Blackwell, Oxford 1975; Kallenius G, et al, FEMS Lett. 7, 297(1983), B313250

## Benzyl 2-acetamido-4-O-(2-acetamido-4-O-[2,4-Di-O-acetyl-3-O-[2,4-di-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)-3,6-di-O-benzyl-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)-a-D-mannopyranosyl]-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-b-D-glucopyranosyl)-3-O-benzyl-6-O-(tri-O-benzyl-L-fucopyranosyl)-2-deoxy-b-D-thioglucofuranoside

[946076-10-4] C<sub>167</sub>H<sub>206</sub>N<sub>6</sub>O<sub>65</sub>S 3369.49

OB11020

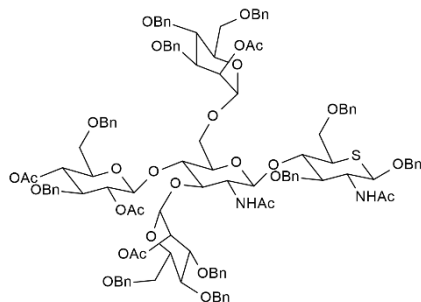
1mg	\$262.50
2mg	\$493.50
5mg	\$1181.30



**Benzyl 2-acetamido-4-O-[2-acetamido-4-O-(2,4-di-O-acetyl-3,6-di-O-benzyl-b-D-glucopyranosyl)-3,6-di-O-(2-O-acetyl-3,4,6-tri-O-benzyl-a-D-mannopyranosyl)-2-deoxy-b-D-glucopyranosyl]-3,6-di-O-benzyl-2-deoxy-5-thio-b-D-glucopyranoside**C<sub>119</sub>H<sub>132</sub>N<sub>2</sub>O<sub>29</sub>S 2086.38

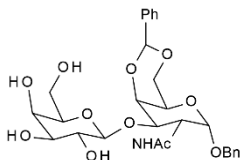
OB10953

1mg	\$78.80
2mg	\$147.00
5mg	\$341.30

**Benzyl 2-acetamido-4,6-O-benzylidene-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside**C<sub>28</sub>H<sub>35</sub>NO<sub>11</sub> 561.58

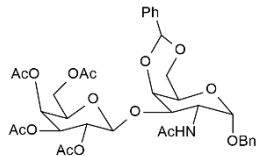
OB10376

1mg	\$73.50
2mg	\$126.00
5mg	\$262.50

**Benzyl 2-acetamido-4,6-O-benzylidene-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-a-D-glucopyranoside**[67313-30-8] C<sub>36</sub>H<sub>43</sub>NO<sub>15</sub> 729.72

OB04606

2mg	\$89.30
5mg	\$157.50
10mg	\$262.50

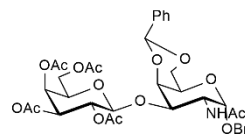
**Benzyl 2-acetamido-6-O-benzyl-3-(2,3,4-tri-O-benzyl-b-L-fucopyranosyl)-4-(b-D-galactopyranosyl)-2-deoxy-a-D-glucopyranoside**

see 2-Acetamido-1,6-di-O-benzyl-3-O-(2,3,4-tri-O-benzyl-b-L-fucopyranosyl)-2-deoxy-4-O-(b-D-galactopyranosyl)-a-D-glucopyranoside, OA05717 on page 18

**Benzyl 2-acetamido-2-deoxy-4,6-O-benzylidene-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranoside**[86327-84-6] C<sub>36</sub>H<sub>43</sub>NO<sub>15</sub> 729.72

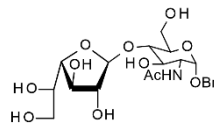
OB16447

10mg	\$125.10
25mg	\$227.50
50mg	\$413.50

**Benzyl 2-acetamido-2-deoxy-4-O-(b-D-galactofuranosyl)-a-D-glucopyranoside**[174866-45-6] C<sub>21</sub>H<sub>31</sub>NO<sub>11</sub> 473.47

OB05712

1mg	\$70.00
2mg	\$105.00
5mg	\$210.00

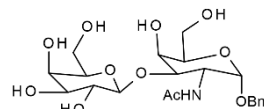
**Benzyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside**

• Gal-b-1,3-GalNAc-a-O-Bn

[3554-96-9] C<sub>21</sub>H<sub>31</sub>NO<sub>11</sub> 473.47

OB05157

1mg	\$55.00
2mg	\$84.00
5mg	\$136.50

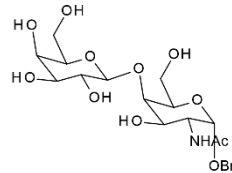


Refs: Lee Y-C, et al, J. Biol. Chem. 1994, 269, 10028

**Benzyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-a-D-galactopyranoside**[1373368-54-7] C<sub>21</sub>H<sub>31</sub>NO<sub>11</sub> 473.47

OB10377

Price On Application



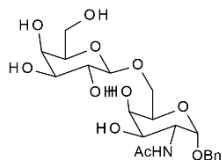
## Benzylacetam

## Benzyl 2-acetamido-2-deoxy-6-O-(b-D-galactopyranosyl)-a-D-galactopyranoside

[93496-44-7] C<sub>21</sub>H<sub>31</sub>NO<sub>11</sub> 473.47

OB06104

1mg	\$55.00
2mg	\$85.00
5mg	\$140.00



## Benzyl 2-acetamido-2-deoxy-3-O-b-D-galactopyranosyl-galactopyranoside hexaacetate

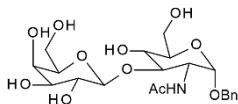
see *Benzyl 2-acetamido-4,6-di-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactosyl)-2-deoxy-a-D-galactopyranoside*, OB16448 on page 40

## Benzyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-glucopyranoside

[50692-66-5] C<sub>21</sub>H<sub>31</sub>NO<sub>11</sub> 473.47

OB06505

2mg	\$94.50
5mg	\$126.00
10mg	\$210.00



## Benzyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-a-D-glucopyranoside

[81243-70-1] C<sub>21</sub>H<sub>31</sub>NO<sub>11</sub> 473.47

OB158092

Price On Application

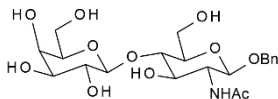


## Benzyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside

[53167-38-7] C<sub>21</sub>H<sub>31</sub>NO<sub>11</sub> 473.47

OB04591

1mg	\$94.50
2mg	\$157.50
5mg	\$262.50

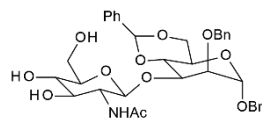


## Benzyl 3-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-O-benzyl-4,6-O-benzylidene-a-D-mannopyranoside

C<sub>35</sub>H<sub>41</sub>NO<sub>11</sub> 651.72

OB06507

10mg	\$99.80
50mg	\$315.00
100mg	\$525.00



## Benzyl 2-acetamido-2-deoxy-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-glucopyranoside

[60831-31-4] C<sub>29</sub>H<sub>39</sub>NO<sub>15</sub> 641.62

OB16445

10mg	\$120.10
25mg	\$218.50
50mg	\$396.50



Refs: Auge, C. &amp; Veyrieres, A, Carbohydrate Res, 46, 293-298 (1976)

## Benzyl 4-O-(2-Acetamido-2-deoxy-3,4,6-tri-O-acetyl-b-D-glucopyranosyl)-N-acetyl-a-D-muramic acid methyl ester

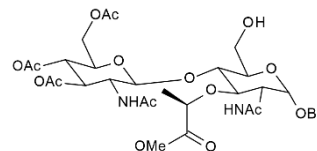
see *4-O-(2-Acetamido-2-deoxy-3,4,6-tri-O-acetyl-b-D-glucopyranosyl)-1,6-di-O-benzyl-2-deoxy-a-D-muramic acid methyl ester*, OA06508 on page 17

## Benzyl 4-O-(2-acetamido-2-deoxy-3,4,6-tri-O-acetyl-b-D-glucopyranosyl)-N-acetyl-a-D-muramic acid methyl ester

C<sub>33</sub>H<sub>46</sub>N<sub>2</sub>O<sub>16</sub> 726.72

OB09982

1mg	\$73.50
2mg	\$126.00
5mg	\$236.30



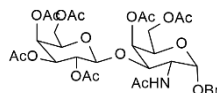
## Benzyl 2-acetamido-4,6-di-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactosyl)-2-deoxy-a-D-galactopyranoside

• Benzyl 2-acetamido-2-deoxy-3-O-b-D-galactopyranosyl-galactopyranoside hexaacetate

[3809-10-7] C<sub>33</sub>H<sub>43</sub>NO<sub>17</sub> 725.69

OB16448

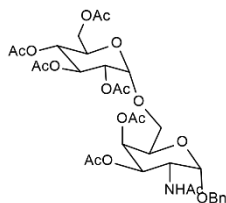
5mg	\$52.50
10mg	\$94.50
25mg	\$210.00



**Benzyl 2-acetamido-3,4-di-O-acetyl-6-O-(2,3,4,6-tetra-O-acetyl-a-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside**C<sub>33</sub>H<sub>43</sub>NO<sub>17</sub> 725.69

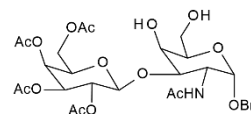
OB06500

5mg	\$99.80
10mg	\$168.00
25mg	\$262.50

**Benzyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranoside**[90754-57-7] C<sub>29</sub>H<sub>39</sub>NO<sub>15</sub> 641.62

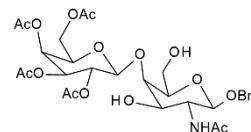
OB04581

5mg	\$89.30
10mg	\$168.00
25mg	\$262.50

**Benzyl 2-acetamido-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-b-D-galactopyranoside**C<sub>29</sub>H<sub>39</sub>NO<sub>15</sub> 641.62

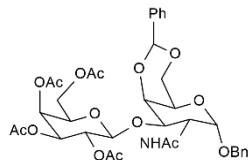
OB05309

5mg	\$89.30
10mg	\$168.00
25mg	\$262.50

**Benzyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-O-benzylidene-2-deoxy-a-D-galactopyranose**C<sub>36</sub>H<sub>43</sub>NO<sub>15</sub> 729.72

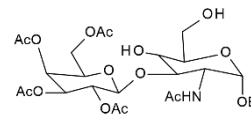
OB10379

10mg	\$94.50
25mg	\$2231.50
50mg	\$3150.00

**Benzyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-a-D-glucopyranoside**C<sub>29</sub>H<sub>39</sub>NO<sub>15</sub> 641.62

OB05173

10mg	\$89.30
25mg	\$168.00
50mg	\$262.50

**Benzyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-O-benzylidene-2-deoxy-a-D-glucopyranose**C<sub>36</sub>H<sub>43</sub>NO<sub>15</sub> 729.72

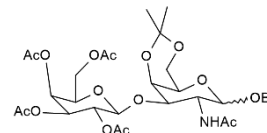
OB10384

10mg	\$70.00
25mg	\$150.00
50mg	\$250.00

**Benzyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-4,6-O-isopropylidene-D-galactopyranose**C<sub>32</sub>H<sub>43</sub>NO<sub>15</sub> 681.7

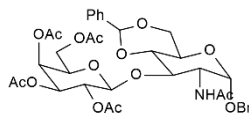
OB07414

50mg	\$500.00
100mg	\$850.00
250mg	\$1500.00

**Benzyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-O-benzylidene-2-deoxy-a-D-glucopyranoside**C<sub>36</sub>H<sub>43</sub>NO<sub>15</sub> 729.72

OB04588

25mg	\$105.00
50mg	\$199.50
100mg	\$315.00



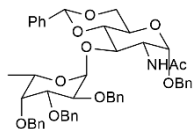
## Benzylacetam

## Benzyl 2-acetamido-3-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-4,6-O-benzylidene-2-deoxy-a-D-glucopyranoside

[196941-73-8] C<sub>49</sub>H<sub>53</sub>NO<sub>10</sub> 815.95

OB16446

5mg	\$115.50
10mg	\$199.50
25mg	\$394.00

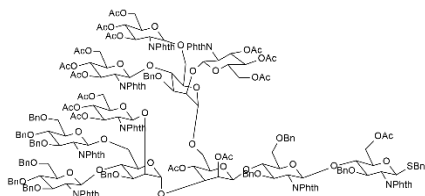


## Benzyl 6-O-acetyl-3-O-benzyl-4-O-(4-O-[2,4-di-O-acetyl-3-O-(3-O-benzyl-2,4,6-tri-O-(3,4,6-tri-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranosyl)-6-O-(3-O-benzyl-2,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranosyl]-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-2-deoxy-2-phthalimido-b-D-thioglucopyranoside

C<sub>244</sub>H<sub>238</sub>N<sub>8</sub>O<sub>78</sub>S 4562.57

OB11011

1mg \$588.00



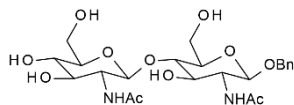
## Benzyl N,N'-di-acetyl-b-chitobioside

• GlcNAC-b-1,4-GlcNAC-b-OBn

[19272-52-7] C<sub>23</sub>H<sub>34</sub>N<sub>2</sub>O<sub>11</sub> 514.52

OB06763

10mg	\$100.00
25mg	\$195.00
50mg	\$360.00

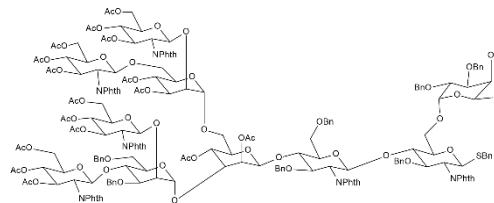


## Benzyl 4-O-(4-O-[[2,4-di-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranosyl]-b-D-mannopyranosyl]]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-thioglucopyranoside

[946164-30-3] C<sub>203</sub>H<sub>206</sub>N<sub>6</sub>O<sub>71</sub>S 3897.87

OB11019

1mg	\$315.00
2mg	\$525.00



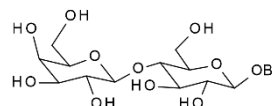
## Benzyl 4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside

• Benzyl b-D-lactoside

[18404-72-3] C<sub>19</sub>H<sub>26</sub>O<sub>11</sub> 432.42

OB06492

100mg	\$80.00
250mg	\$162.50
500mg	\$250.00



## Benzyl 4-O-(b-D-galactopyranosyl)-b-D-xylopyranoside

[469860-87-5] C<sub>18</sub>H<sub>26</sub>O<sub>10</sub> 402.39

OB57755

1mg	\$325.00
2mg	\$550.00
5mg	\$1050.00



## Benzyl 4-O-a-D-glucosaminyl-b-D-xylopyranoside

OB157344

Price On Application



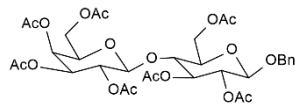
**Benzyl hepta-O-acetyl-b-D-lactoside**

• Benzyl 2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-b-D-glucopyranoside

[67310-53-6] C<sub>33</sub>H<sub>42</sub>O<sub>18</sub> 726.69

OB04637

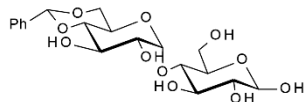
250mg \$92.50  
500mg \$170.00  
1g \$315.00

**4,6-O-Benzylidene-D-maltose**

[93417-41-5][873801-28-6] C<sub>19</sub>H<sub>26</sub>O<sub>11</sub> 430.4

OB34732

10g \$1400.00

**Benzyl b-D-lactoside**

see *Benzyl 4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside*, OB06492 on page 42

**Benzyl 4-O-b-D-galactopyranosyl-b-D-xylopyranoside**

• Galb1-4Xylb1-O-benzyl

[67412-74-2] C<sub>18</sub>H<sub>26</sub>O<sub>10</sub> 402.39

OB157084

Price On Application

**Benzyl 4-O-b-D-glucosaminyl-b-D-xylopyranoside**

OB157125

Price On Application

**Benzyl 4-O-b-D-glucuronyl-b-D-xylopyranoside**

OB157126

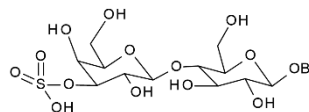
Price On Application

**Benzyl 3'-sulfo-b-D-lactoside sodium salt**

[431898-95-2][753443-09-3] C<sub>19</sub>H<sub>26</sub>O<sub>14</sub>S·xNa 512.48 (free acid basis)

OB04636

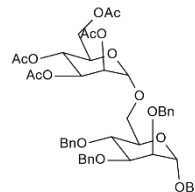
1mg \$80.00  
2mg \$150.00  
5mg \$225.00

**Benzyl-6-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-2,3,4-tri-O-benzyl-a-D-mannopyranoside**

C<sub>48</sub>H<sub>54</sub>O<sub>15</sub> 870.93

OB09983

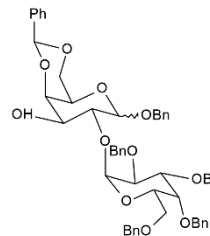
5mg \$94.50  
10mg \$157.50  
25mg \$262.50

**Benzyl 2-O-(2,3,4,6-tetra-O-benzyl-a-D-galactopyranosyl)-4,6-O-benzylidene-D-galactopyranose**

C<sub>54</sub>H<sub>56</sub>O<sub>11</sub> 881.04

OB07247

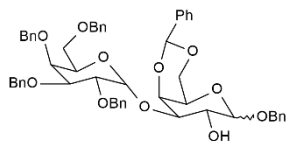
2mg \$89.30  
5mg \$168.00  
10mg \$315.00



**Benzyltetrab****Benzyl 3-O-(2,3,4,6-tetra-O-benzyl-a-D-galactopyranosyl)-4,6-O-benzylidene-D-galactopyranose**C<sub>54</sub>H<sub>56</sub>O<sub>11</sub> 881.04

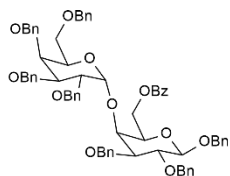
OB07248

2mg	\$89.30
5mg	\$168.00
10mg	\$315.00

**Benzyl 4-O-(2,3,4,6-tetra-O-benzyl-a-D-galactopyranosyl)-2,3-di-O-benzyl-6-O-benzoyl-b-D-galactopyranoside**C<sub>68</sub>H<sub>68</sub>O<sub>12</sub> 1077.26

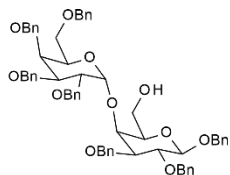
OB10375

1mg	\$84.00
2mg	\$147.00
5mg	\$262.50

**Benzyl 4-O-(2,3,4,6-tetra-O-benzyl-a-D-galactopyranosyl)-2,3-di-O-benzyl-b-D-galactopyranoside**C<sub>61</sub>H<sub>64</sub>O<sub>11</sub> 973.15

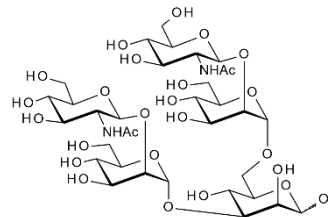
OB10374

1mg	\$84.00
2mg	\$147.00
5mg	\$262.50

**Benzyl 2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-b-D-glucopyranoside**see *Benzyl hepta-O-acetyl-b-D-lactoside*, OB04637 on page 43**Biantennary N-linked core pentasaccharide**C<sub>34</sub>H<sub>58</sub>N<sub>2</sub>O<sub>26</sub> 910.82

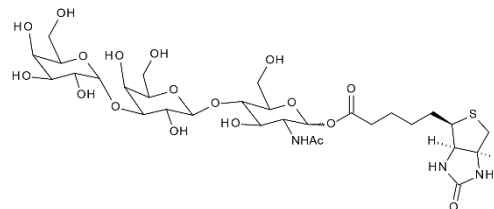
OB58464

1mg	\$195.00
2mg	\$380.00
5mg	\$925.00

**Biantennary, monogalacto, core fucosylated, NGA1F**see *NGA1F N-Glycan*, ON64739 on page 232**Biantennary, monogalacto, NGA1**see *NGA1 N-Glycan*, ON64738 on page 233**Biotinylated Linear B trisaccharide**C<sub>30</sub>H<sub>49</sub>N<sub>3</sub>O<sub>18</sub>S 771.79

OB03783

1mg	\$735.00
2mg	\$1260.00
5mg	\$2100.00

**Bis(6-O-b-D-Glucopyranosyl-b-D-glucopyranosyl) 8,8'-diapo-psi,**see *Crocin I*, OC08286 on page 66**Blood Group H-BSA**

OB58396

1mg	\$4104.38
2mg	\$6567.00
5mg	\$10507.20

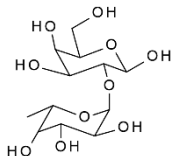




## Blood Group H disaccharide

- Fuc-(a1,2)-Gal
- 2-O-(a-L-Fucopyranosyl)-D-galactopyranose
- H-Disaccharide

[24656-24-4][146076-26-8][16741-18-7]	C <sub>12</sub> H <sub>22</sub> O <sub>10</sub>	326.3		
OB05907		1mg	\$50.00	
		2mg	\$90.00	
		5mg	\$175.00	



Refs: Feizi T, Nature 1985, 314, p53; Garegg PJ, et al, Carbohydr. Chem JF Kennedy Ed. 1988, OUP, p548

## Blood group H disaccharide-BSA

OB58395		250ug	\$190.00	
		500ug	\$250.00	
		1mg	\$425.00	



## Blood Group A-HAS

OB58392		1mg	\$1584.72	
		2mg	\$2535.56	
		5mg	\$4056.90	



## Blood Group B-HAS

OB58394		1mg	\$2059.66	
		2mg	\$3295.46	
		5mg	\$5272.75	



## Blood group B hexasaccharide type I

- Gal-a-1,3(Fuc-a-1,2)Gal-b-1,3GlcNAc-b-1,3Gal-b-1,4Glc

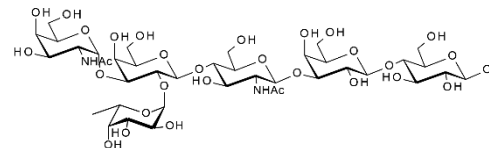
C <sub>38</sub> H <sub>65</sub> NO <sub>30</sub>	1015.91			
OB159055		1mg	\$175.00	
		2mg	\$290.00	
		5mg	\$575.00	



## Blood group A hexasaccharide type II

- GalNAca-3(fuca-2)Galb-4GlcNAcb-3Galb-4Glc

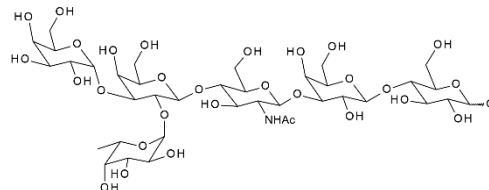
[30461-82-6]	C <sub>40</sub> H <sub>68</sub> N <sub>2</sub> O <sub>30</sub>	1056.96		
OA11696		1mg	\$150.00	
		2mg	\$250.00	
		5mg	\$425.00	



## Blood group B hexasaccharide type II

- Gal-a-1,3(Fuc-a-1,2)Gal-b-1,4GlcNAc-b-1,3Gal-b-1,4Glc

C <sub>38</sub> H <sub>65</sub> NO <sub>30</sub>	1015.93			
OB09577		1mg	\$175.00	
		2mg	\$290.00	
		5mg	\$575.00	



## Blood group A-HSA

OB58608		1mg	\$1056.72	
		2mg	\$1690.76	
		5mg	\$2705.20	



## BloodgroupHS

## Blood group B-HSA

OB58609	1mg	\$160.90
	2mg	\$257.44
	5mg	\$411.90



## Blood group B-HSA

OB58567	1mg	\$160.90
	2mg	\$257.44
	5mg	\$411.90



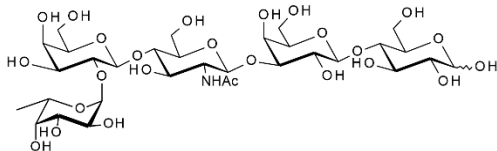
## Blood group H pentaose type II

• Fuca-2Galb-4GlcNAcb-3Galb-4Glc

[30517-76-1] C<sub>32</sub>H<sub>58</sub>N<sub>2</sub>O<sub>25</sub> 853.77

OH11691

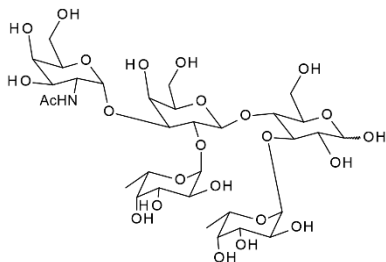
Price On Application



## Blood Group A pentasaccharide

[50624-46-9] C<sub>32</sub>H<sub>58</sub>N<sub>2</sub>O<sub>24</sub> 837.77

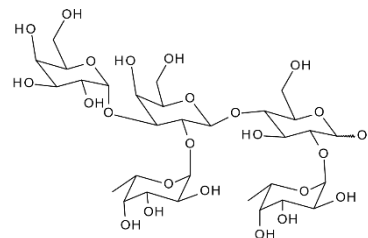
OB06035	50ug	\$120.00
	100ug	\$190.00
	250ug	\$375.00



## Blood Group B pentasaccharide

[72468-43-0] C<sub>30</sub>H<sub>52</sub>O<sub>24</sub> 796.72

OB03859	50ug	\$120.00
	100ug	\$190.00
	200ug	\$300.00



## Blood Group A pentasaccharide type I

• GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-3Gal

C<sub>34</sub>H<sub>58</sub>N<sub>2</sub>O<sub>25</sub> 894.82

OB158901	1mg	\$350.00
	2mg	\$550.00
	5mg	\$975.00



## Blood Group B pentasaccharide type I

• Gal-a-1,3(Fuc-a-1,2)Galb-1,3GlcNAc-b-1,3Gal

C<sub>32</sub>H<sub>58</sub>N<sub>2</sub>O<sub>25</sub> 853.77

OB158904	1mg	\$350.00
	2mg	\$550.00
	5mg	\$975.00

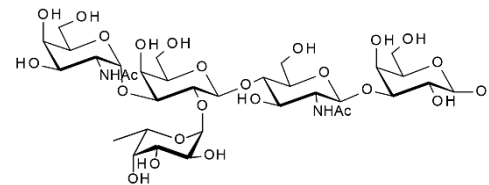


## Blood group A pentasaccharide type II

• GalNAca-3(Fuca-2)Galb-4GlcNAcb-3Gal

[1352644-11-1] C<sub>34</sub>H<sub>58</sub>N<sub>2</sub>O<sub>25</sub> 894.82

OA11693	1mg	\$350.00
	2mg	\$550.00
	5mg	\$975.00



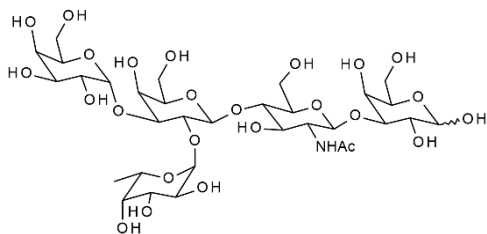
**Blood Group B pentasaccharide type II**

• Gal-a-1,3(Fuc-a-1,2)Galb-1,4GlcNAc-b-1,3Gal

C<sub>32</sub>H<sub>55</sub>NO<sub>25</sub> 853.79

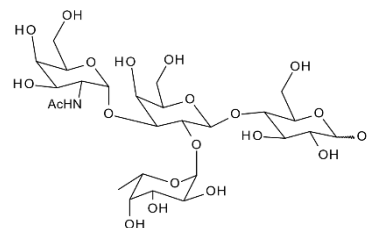
OB09576

1mg	\$350.00
2mg	\$550.00
5mg	\$975.00

**Blood Group A tetrasaccharide type VI**[59957-92-5] C<sub>28</sub>H<sub>48</sub>N<sub>2</sub>O<sub>20</sub> 732.68

OB03872

500ug	\$50.00
1mg	\$85.00
2mg	\$150.00



Refs: Boraston AB, Wang D, Burke RD, J. Biol. Chem, 2006, 281, p35263

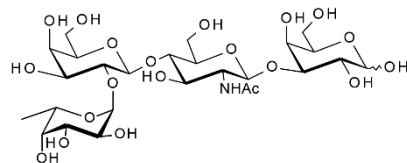
**Blood group H tetraose type II**

• Fuca-2Galb-4GlcNAcb-3Gal

[1352644-16-6] C<sub>26</sub>H<sub>45</sub>NO<sub>20</sub> 691.63

OB11695

5mg	\$575.00
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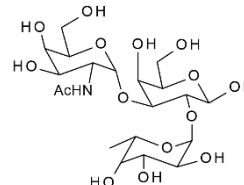
**Blood Group A trisaccharide**

• GalNAc-a-1,3-(Fuc-a-1,2)Gal

[49777-13-1] C<sub>20</sub>H<sub>35</sub>NO<sub>15</sub> 529.49

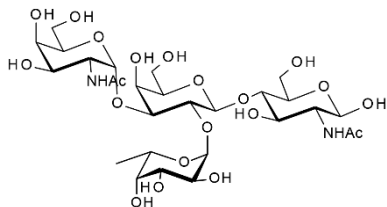
OB04438

1mg	\$150.00
2mg	\$260.00
5mg	\$575.00

**Blood Group A tetrasaccharide type II**[73361-87-2] C<sub>28</sub>H<sub>48</sub>N<sub>2</sub>O<sub>20</sub> 732.68

OA11699

Price On Application

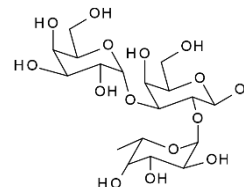
**Blood Group B trisaccharide**

- Gal-a-1,3(Fuc-a-1,2)Gal
- 2-O-(3-O[a-D-Galactopyranosyl]-a-L-fucopyranosyl)-D-galactopyranose

[49777-14-2] C<sub>18</sub>H<sub>32</sub>O<sub>15</sub> 488.44

OB01663

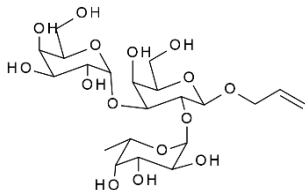
1mg	\$150.00
2mg	\$260.00
5mg	\$575.00



**BloodGrouptr****Blood Group B trisaccharide-b-allyl glycoside**C<sub>21</sub>H<sub>36</sub>O<sub>15</sub> 528.5

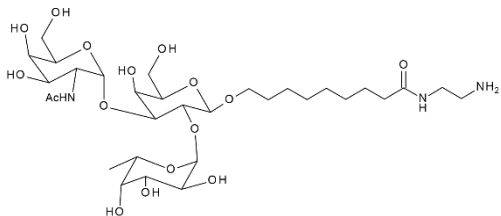
OB31739

Price On Application

**Blood Group A trisaccharide, N-aminoethyl nonanamide**• GalNAc-a-1,3-(Fuc-a-1,2)Gal-b1-O-(CH<sub>2</sub>)<sub>8</sub>CONH(CH<sub>2</sub>)<sub>2</sub>NH<sub>2</sub>[170298-33-6] C<sub>31</sub>H<sub>57</sub>N<sub>3</sub>O<sub>16</sub> 727.79

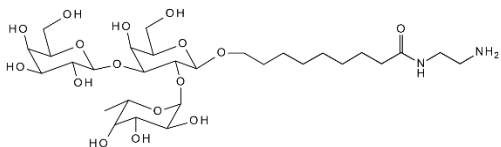
OB07522

500ug	\$105.00
1mg	\$204.80
2mg	\$367.50

**Blood Group B trisaccharide, N-aminoethyl nonanamide**• Gal-a-1,3(Fuc-a-1,2)Gal-b1-O-(CH<sub>2</sub>)<sub>8</sub>CONH(CH<sub>2</sub>)<sub>2</sub>NH<sub>2</sub>C<sub>29</sub>H<sub>54</sub>N<sub>2</sub>O<sub>16</sub> 686.74

OB07521

1mg	\$204.80
2mg	\$367.50
5mg	\$708.80

**Blood Group A trisaccharide-APE,Biotin-BSA**

• GalNAc-a-1,3-(Fuc-a-1,2)Gal-APE-[Biotin]-BSA

OB01687

Price On Application

**Blood Group B trisaccharide-APE,Biotin-BSA**

• Gal-a-1,3(Fuc-a-1,2)Gal-APE-[Biotin]-BSA

OB01689

Price On Application

**Blood Group A trisaccharide-BSA**

• GalNAc-a-1,3-(Fuc-a-1,2)Gal-BSA

OB58391

1mg	\$700.00
2mg	\$1200.00
5mg	\$2000.00

**Blood Group B Trisaccharide-BSA**

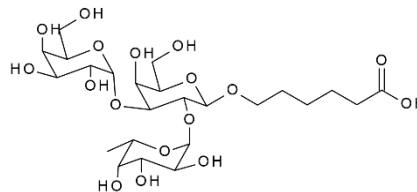
OB58393

250ug	\$600.00
500ug	\$900.00
1mg	\$1500.00

**Blood Group B trisaccharide-(CH<sub>2</sub>)<sub>5</sub>COOH derivative**C<sub>24</sub>H<sub>42</sub>O<sub>17</sub> 602.58

OB35328

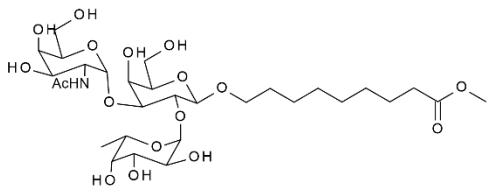
1mg	\$150.00
2mg	\$260.00
5mg	\$625.00



**Blood Group A trisaccharide-(CH<sub>2</sub>)<sub>8</sub>COOMe derivative**[68733-37-9] C<sub>30</sub>H<sub>53</sub>NO<sub>17</sub> 699.74

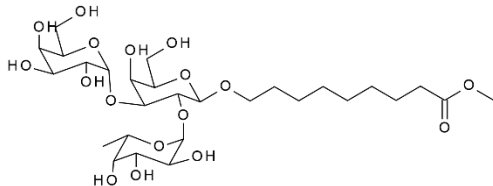
OB31565

1mg	\$157.50
2mg	\$262.50
5mg	\$498.80

**Blood Group B trisaccharide-(CH<sub>2</sub>)<sub>8</sub>COOMe derivative**[65606-80-6] C<sub>28</sub>H<sub>50</sub>O<sub>17</sub> 658.69

OB31566

1mg	\$157.50
2mg	\$262.50
5mg	\$498.80

**Blood group A trisaccharide ester derivative**C<sub>30</sub>H<sub>53</sub>NO<sub>17</sub> 699.74

OB58548

2mg	\$65.66
5mg	\$105.05

**Blood Group B trisaccharide ester derivative**C<sub>28</sub>H<sub>50</sub>O<sub>17</sub> 658.69

OB58555

1mg	\$410.98
2mg	\$657.56
5mg	\$1052.10

**Blood Group B trisaccharide-PAA-Biotin**

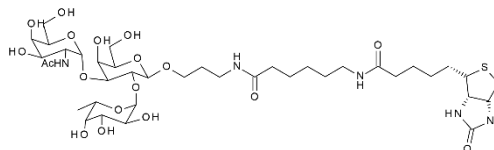
OB45849

1mg \$225.00

**Blood Group A trisaccharide, spacer-biotin conjugate**• Fuc-(a1,2)-[GalNAc-(a1,3)]-b-Gal-O-(CH<sub>2</sub>)<sub>3</sub>NHCO(CH<sub>2</sub>)<sub>5</sub>NH-biotin[870891-83-1] C<sub>39</sub>H<sub>67</sub>N<sub>5</sub>O<sub>18</sub>S 926.04

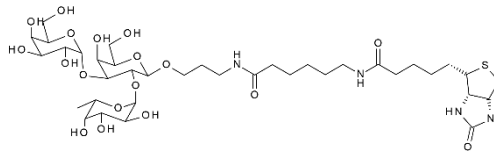
OB29936

1mg \$350.00

**Blood Group B trisaccharide, spacer-biotin conjugate**• Gal-a-1,3(Fuc-a-1,2)Gal-b-1-O-(CH<sub>2</sub>)<sub>3</sub>NHCO(CH<sub>2</sub>)<sub>5</sub>NH-biotin[870891-30-8] C<sub>37</sub>H<sub>64</sub>N<sub>4</sub>O<sub>18</sub>S 884.99

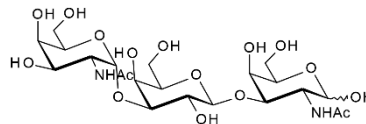
OB31038

1mg	\$262.50
2mg	\$500.00
5mg	\$1050.00

**Blood Group A type III/IV linear trisaccharide**C<sub>22</sub>H<sub>38</sub>N<sub>2</sub>O<sub>16</sub> 586.54

OB13916

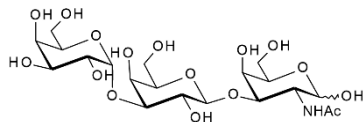
100ug	\$126.00
200ug	\$210.00
500ug	\$475.00



**Blood Groupy****Blood Group B type III/IV linear trisaccharide**C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub> 545.49

OB13919

100ug	\$126.00
200ug	\$210.00
500ug	\$475.00

**Blood Group B type III/IV tetrasaccharide**[1352644-06-4] C<sub>26</sub>H<sub>45</sub>NO<sub>20</sub> 691.63

OB13922

100ug	\$126.00
200ug	\$210.00
500ug	\$475.00

**Blood Group H type III trisaccharide-PAA-biotin**

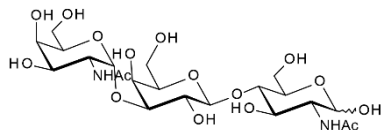
OB45864

1mg	\$385.00
2mg	\$660.00

**Blood Group A type II linear trisaccharide**[138398-63-7] C<sub>22</sub>H<sub>38</sub>N<sub>2</sub>O<sub>16</sub> 586.54

OB13915

100ug	\$126.00
200ug	\$210.00
500ug	\$475.00

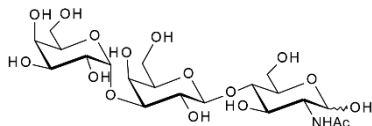
**Blood Group B type II linear trisaccharide**

- a-Gal epitope type II
- Gala1-3Galb1-4GlcNAc

[77356-46-8] C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub> 545.49

OB44765

1mg	\$160.00
2mg	\$250.00
5mg	\$500.00

**Blood Group B type II linear trisaccharide**

see Linear B-2 trisaccharide, OL06495 on page 179

**Blood Group B type II linear trisaccharide amine linker**

- Gala1-3Galb1-4GlcNAc b1-NHCO(CH<sub>2</sub>)NHCO(CH<sub>2</sub>)<sub>10</sub>NH<sub>2</sub>

Price On Application

OB31180

**Blood Group B type II linear trisaccharide-HSA**

- a-Gal epitope - HSA

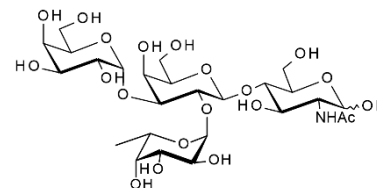
OB58634

250ug	\$275.00
500ug	\$475.00
1mg	\$750.00

**Blood Group B type II tetrasaccharide**[909890-21-7] C<sub>26</sub>H<sub>45</sub>NO<sub>20</sub> 691.63

OB13921

100ug	\$700.00
200ug	\$1100.00
500ug	\$1750.00

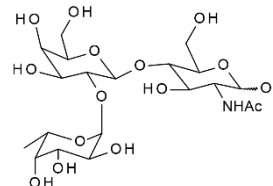
**Blood Group H type II trisaccharide**

- Fuca1-2Galb1-4GlcNAc

C<sub>20</sub>H<sub>35</sub>NO<sub>15</sub> 529.5

OB08358

1mg	\$95.00
2mg	\$180.00
5mg	\$425.00



**Blood group H type II trisaccharide methyl ester**

OB09797

Price On Application

**Blood Group H type II trisaccharide-PAA-biotin**

• Fuc-a1-2-Gal-b1-4-GlcNAc-b-PAA-biotin

OB45851

1mg \$400.00

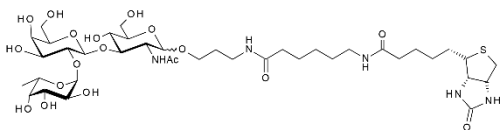
**Blood Group H type II trisaccharide-sp-biotin**

• Fuca1-2Galb1-4GlcNAc-b-1-O(CH2)3NHCO(CH2)5NH-biotin

[870891-89-7] C<sub>39</sub>H<sub>67</sub>N<sub>5</sub>O<sub>18</sub>S 926.04

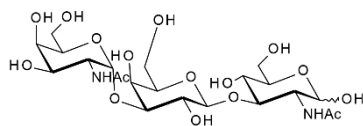
OB31039

1mg \$414.80

**Blood Group A type I linear trisaccharide**[886750-14-7] C<sub>22</sub>H<sub>38</sub>N<sub>2</sub>O<sub>16</sub> 586.54

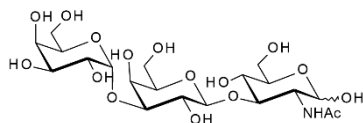
OB13914

100ug	\$126.00
200ug	\$210.00
500ug	\$475.00

**Blood Group B type I linear trisaccharide**[100850-25-7] C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub> 545.49

OB13917

100ug	\$126.00
200ug	\$210.00
500ug	\$475.00

**Blood group A type I tetrasaccharide**C<sub>28</sub>H<sub>48</sub>N<sub>2</sub>O<sub>20</sub> 732.68

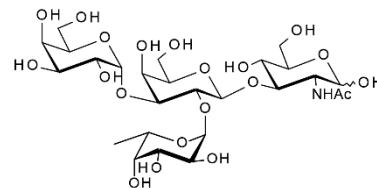
OB58550

100ug	\$600.00
1mg	\$1752.36

**Blood Group B type I tetrasaccharide**[67673-41-0] C<sub>26</sub>H<sub>45</sub>NO<sub>20</sub> 691.63

OB13920

100ug	\$600.00
200ug	\$800.00
500ug	\$1500.00

**Blood Group H type I tetrasaccharide**

OB64806

1mg	\$150.00
2mg	\$250.00
5mg	\$450.00

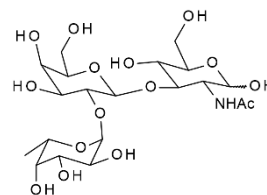
**Blood Group H type I trisaccharide**

• Fuca1-2Galb1-3GlcNAc

[137739-90-3] C<sub>20</sub>H<sub>35</sub>NO<sub>15</sub> 529.49

OB01672

1mg	\$150.00
2mg	\$250.00
5mg	\$450.00



**BloodGroupty****Blood Group H type I trisaccharide-PAA-biotin**

OB45850

1mg

\$280.00

**Blood group A type 3/4 linear trisaccharide**

586.54

OB58553

Price On Application

**Blood group A type 4 linear trisaccharide-NGL**

OB58411

Price On Application

**Blood group A type 3/4 tetrasaccharide**C<sub>28</sub>H<sub>48</sub>N<sub>2</sub>O<sub>20</sub> 732.68

OB58554

100ug  
1mg\$600.00  
\$1900.00**6-Bromo-6-deoxy-a-cyclodextrin**

• Hexakis-(6-bromo-6-deoxy)-a-cyclodextrin

[53784-82-0] C<sub>36</sub>H<sub>54</sub>Br<sub>6</sub>O<sub>24</sub> 1350.22

OB44652

Price On Application

**6-Bromo-6-deoxy-b-cyclodextrin**

• Heptakis-(6-bromo-6-deoxy)-b-cyclodextrin

[53784-83-1] C<sub>42</sub>H<sub>63</sub>Br<sub>7</sub>O<sub>28</sub> 1575.26

OB44674

500mg  
1g  
2.5g\$85.00  
\$110.00  
\$262.50**6-bromo-6-deoxy-gamma-cyclodextrin**

• Octakis-(6-bromo-6-deoxy)-γ-cyclodextrin

C<sub>48</sub>H<sub>72</sub>Br<sub>8</sub>O<sub>32</sub> 1800.3

OB44694

Price On Application

**1-Bromo-2,4,6-tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-a-D-glucopyranose***see 2,4,6-Tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-a-D-glucopyranosyl bromide, OT04669 on page 276***1-Bromo-2,4,6-tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-a-D-glucopyranoside**C<sub>26</sub>H<sub>35</sub>BrO<sub>17</sub> 699.45

OB10025

2mg  
5mg  
10mg\$100.00  
\$200.00  
\$300.00**Buddleflavonolside***see Linarin, OL08109 on page 179*



**6-O-tert-butyltrimethylsilyl-gamma-cyclodextrin**

• Octakis-(6-O-tert-butyltrimethylsilyl)-γ-cyclodextrin

C<sub>86</sub>H<sub>192</sub>O<sub>40</sub>Si<sub>8</sub> 2211.21

OT44684

Price On Application

**6-tert-Butyldimethylsilyl-α-cyclodextrin**

• Hexakis-(6-O-tert-butyltrimethylsilyl)-α-cyclodextrin

[118646-79-0] C<sub>72</sub>H<sub>144</sub>O<sub>30</sub>Si<sub>6</sub> 1658.41

OT44644

10g	\$2000.00
25g	\$3750.00
50g	\$5500.00

**Butyl-γ-cyclodextrin**

OB46501

5g	\$1500.00
10g	\$2371.80
25g	\$3895.50

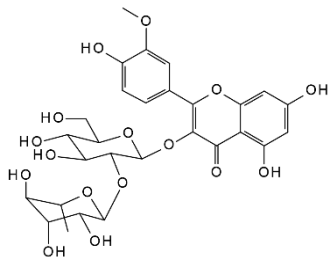
**Calendoflavoside**

• Isorhamnetin-3-O-neohesperidoside

[55033-90-4] C<sub>28</sub>H<sub>32</sub>O<sub>16</sub> 624.54

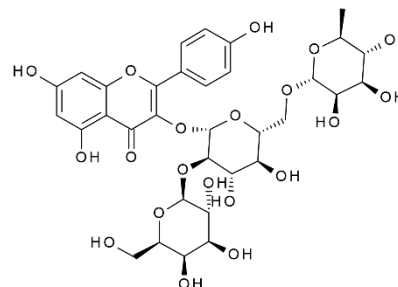
OC33287

2mg	\$60.00
5mg	\$125.00
10mg	\$200.00

**Camelliaside A**[135095-52-2] C<sub>33</sub>H<sub>40</sub>O<sub>20</sub> 756.66

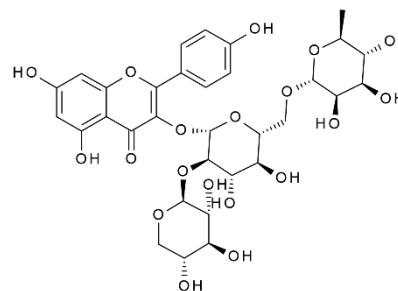
OC33270

5mg	\$125.00
10mg	\$200.00
25mg	\$350.00

**Camelliaside B**[131573-90-5] C<sub>32</sub>H<sub>38</sub>O<sub>19</sub> 726.63

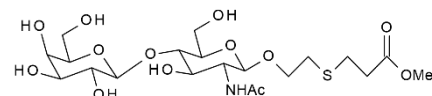
OC33272

Price On Application

**Carbomethoxyethylthioethyl 2-acetamido-2-deoxy-4-O-(β-D-galactopyranosyl)-β-D-glucopyranoside**[87019-31-6] C<sub>20</sub>H<sub>35</sub>NO<sub>13</sub>S 529.56

OC06808

1mg	\$262.50
2mg	\$420.00
5mg	\$840.00

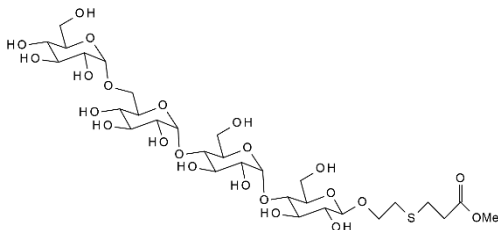
Refs: Lis H, et al, *Phytochemistry* 1985, 24, 2803

## Carbomethoxy

**Carbomethoxyethylthioethyl 4-O-(4-O-[6-O-(a-D-glucopyranosyl)-a-D-glucopyranosyl]-a-D-glucopyranosyl)-b-D-glucopyranoside**[90214-99-6] C<sub>30</sub>H<sub>52</sub>O<sub>23</sub>S 812.79

OC06493

1mg	\$577.50
2mg	\$945.00
5mg	\$1680.00

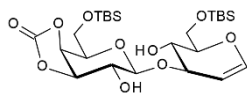


Refs: Kuriyama M, et al, J. Biochem. 1985, Tokyo 98, 1041; Hallgren P, et al, J. Biol. Chem. 252, 1034 (1977)

**3',4'-O-Carbonyl-6,6'-di-O-tert-butyl dimethylsilyl lactal**[163228-39-5] C<sub>28</sub>H<sub>46</sub>O<sub>10</sub>Si<sub>2</sub> 562.8

OC04310

Price On Application

**3',4'-O-Carbonyl-6,6'-di-O-tert-butyl diphenylsilyl lactal**[159494-36-7] C<sub>48</sub>H<sub>54</sub>O<sub>10</sub>Si<sub>2</sub> 811.08

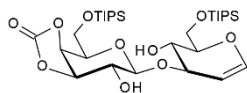
OC05703

Price On Application

**3',4'-O-Carbonyl-6,6'-di-O-triisopropylsilyl lactal**[174173-98-9] C<sub>31</sub>H<sub>58</sub>O<sub>10</sub>Si<sub>2</sub> 646.96

OC04308

Price On Application

**(2-Carboxyethyl)-a-cyclodextrin**

• CEACD

C<sub>45</sub>H<sub>72</sub>O<sub>39</sub> 1237.03

OC34958

1g	\$204.80
2g	\$315.00
5g	\$498.80

**(2-Carboxyethyl)-b-cyclodextrin**

• CEBCD

• (2-Carboxyethyl)-b-cyclodextrin sodium salt

C<sub>42</sub>H<sub>70-n</sub>O<sub>35</sub>·(C<sub>2</sub>H<sub>4</sub>COONa)<sub>n</sub> 1135.0+n(94.1)

OC34953

1g	\$150.00
2g	\$260.00
5g	\$450.00

**(2-Carboxyethyl)-b-cyclodextrin sodium salt**

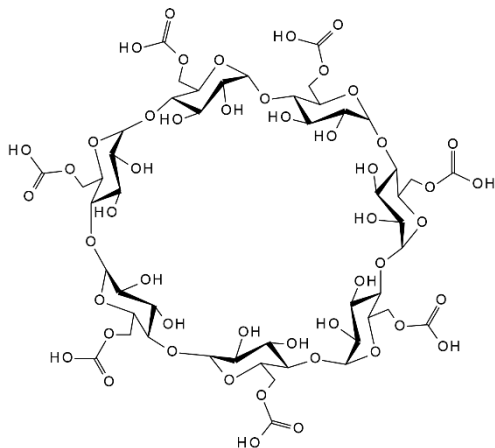
see (2-Carboxyethyl)-b-cyclodextrin, OC34953 on page 54

**2-(2-Carboxyethylthio)-ethyl 4-O-[4-O-(a-D-galactopyranosyl)-b-D-galactopyranosyl]-b-D-glucopyranoside**

see Globotriose 2-(2-carboxyethylthio)ethane, OG05180 on page 126

Carboxylated  $\beta$ -cyclodextrin

OC34957

50mg  
100mg\$60.00  
\$100.00

## Carboxymethyl cellulose sodium - Viscosity 100 - 300 mPa-s

[9004-32-4]

OC146465

Price On Application



## Carboxymethyl cellulose sodium - Viscosity 1400 - 2000cps

- Cellulose Glycolic Acid Sodium Salt
- Sodium Tylose

[9004-32-4]  $(C_6H_7O_2(OH)_x(OCH_2COONa)_y)_n$  Polymer

OC03666

50g  
100g  
250g\$60.00  
\$100.00  
\$150.00

## Carboxymethyl cellulose sodium - Viscosity 2000-4000 mPa-s

[9004-32-4]

OC146467

Price On Application



## Carboxymethyl cellulose sodium - Viscosity 700-1500 mPa-s

[9004-32-4]

OC146466

Price On Application



## Carboxymethyl beta- cyclodextrin

[218269-34-2]

OC156903

10g  
25g  
50g\$100.00  
\$150.00  
\$250.00Carboxymethyl- $\alpha$ -cyclodextrin sodium salt

- CMACD

 $C_{43}H_{64}O_{37} \cdot xNa$  1172.95 (free acid basis)

OC34959

1g  
2g  
5g\$100.00  
\$190.00  
\$300.00

**Carboxymethyl****Carboxymethyl- $\beta$ -cyclodextrin sodium salt**

• CMBCD

 $C_{49}H_{74}O_{42} \cdot xNa$  1335.09 (free acid basis)

OC34952

1g	\$99.80
2g	\$157.50
5g	\$262.50

**Carboxymethyl-dextran sodium salt 20-30% COOH - Average molecular weight 150000**

[39422-83-8]

OC159122

Price On Application

**Carboxymethyl- $\gamma$ -cyclodextrin sodium salt** $C_{64}H_{86}O_{46} \cdot xNa$  1471.23 (free acid basis)

OC35054

1g	\$155.00
2g	\$260.00
5g	\$450.00

**Carboxymethyl-dextran sodium salt 20-30% COOH - Average molecular weight 40000**

[39422-83-8]

OC158565

Price On Application

**Carboxymethyl-dextran sodium salt 10-20% COOH - Average molecular weight 40000**

[39422-83-8]

OC156866

Price On Application

**Carboxymethyl-dextran sodium salt 20-30% COOH - Average molecular weight 70000**

[39422-83-8]

OC158566

Price On Application

**Carboxymethyl-dextran sodium salt 10-20% COOH - Average molecular weight 70000**

[39422-83-8]

OC156865

Price On Application

**Carboxymethyl-dextran sodium salt 10-20% COOH terminally reduced - Average molecular weight 40000**

[39422-83-8]

OC158436

Price On Application



**Carboxymethyl-dextran sodium salt 10-20% COOH terminally reduced - Average molecular weight 70000**

[39422-83-8]

Price On Application

OC158435

**(3b)-17-Carboxy-28-norolean-12-en-3-yl 3'-O-(b-D-xylopyranosyl)-b-D-glucuronide**see *Momordin 1c*, OM08142 on page 221**(3b,20b)-20-Carboxy-11-oxo-30-norolean-12-en-3-yl 2-O-(b-D-glucopyranuronosyl)-b-D-glucopyranosiduronic Acid**see *Glycyrrhizic acid*, OG08293 on page 136**Carditoxin**see *Digitoxin*, OD09336 on page 83**a-Carrageenan**[104781-83-1] C<sub>24</sub>H<sub>34</sub>O<sub>31</sub>S<sub>4</sub> 946.77

Price On Application

OC30040

**CD33 inhibitor**

Price On Application

OC157246

**CEACD**see *(2-Carboxyethyl)-a-cyclodextrin*, OC34958 on page 54**CEBCD**see *(2-Carboxyethyl)-b-cyclodextrin*, OC34953 on page 54**D-Cellobial**

• 1,5-Anhydro-2-deoxy-4-(O-b-D-glucopyranosyl)-D-arabino-hex-1-enitol

[490-51-7] C<sub>12</sub>H<sub>20</sub>O<sub>9</sub> 308.28

OC14037

1g	\$80.00
2g	\$116.00
5g	\$185.00

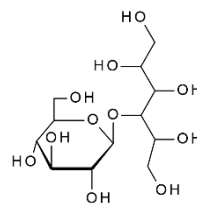
**Cellobiitol**

• 4-O-(b-D-Glucopyranosyl)-D-glucitol

[535-94-4] C<sub>12</sub>H<sub>24</sub>O<sub>11</sub> 344.31

OC05007

25mg	\$60.00
50mg	\$90.00
100mg	\$140.00

**Cellobionic acid ammonium salt**

• 4-O-b-D-Glucopyranosyl-D-gluconic acid

[534-41-8] C<sub>12</sub>H<sub>25</sub>NO<sub>12</sub> 375.33

OC61665

1mg	\$45.00
2mg	\$60.00
5mg	\$95.00

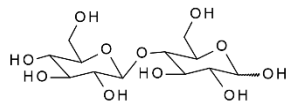
**Cellobiosan**see *1,6-Anhydro-b-D-cellobiose*, OA07141 on page 32

**Cellobiose****D-Cellobiose**

- Glc-b-1,4-Glc
- 4-O-(b-D-Glucopyranosyl)-D-glucopyranose

[528-50-7] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OC04040	50g	\$40.00
	100g	\$65.00
	250g	\$135.00



Refs: Pitson SM, et al, Enzyme Microbiol. Technol. 1997, 21, p182; Beil. 177, V, 191

**[1-13C]D-Cellobiose**

- 4-O-b-D-Glucopyranosyl-D-[1-13C]glucopyranose
- Glc-b-1,4-Glc[1-13C]

13CC<sub>11</sub>H<sub>22</sub>O<sub>11</sub> 4449.85

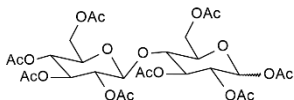
OC76730	25mg	\$250.00
	50mg	\$400.00
	100mg	\$650.00

**D-Cellobiose octaacetate**

- Octa-O-acetyl D-Cellobiose

[5346-90-7] C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.59

OC05954	25g	\$75.00
	50g	\$120.00
	100g	\$220.00



Refs: Hiroyuki K, Yukari N, Nobuhiro N, et al, J. Polym. Sci. 37, 22, p4100

**Cellobiose thiol**

see 4-O-(b-D-Glucopyranosyl)-b-D-thioglucopyranose, OG10933 on page 130

**Cellobiosyl fluoride**

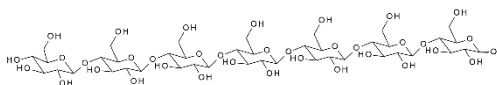
- 4-O-b-D-Glucopyranosyl-a-D-glucopyranosyl fluoride

[103531-01-7] C<sub>12</sub>H<sub>21</sub>FO<sub>10</sub> 344.29

OC72059	1g	\$110.00
	2g	\$190.00
	5g	\$425.00

**D-Celloheptaose**[52646-27-2] C<sub>42</sub>H<sub>72</sub>O<sub>36</sub> 1153.02

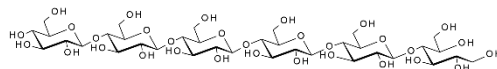
OC05241	1mg	\$90.00
	2mg	\$150.00
	5mg	\$295.00



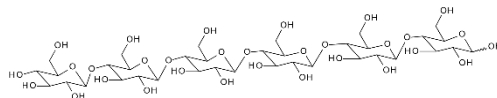
Refs: Wolfram ML, et al, JACS, 1952, 74, p5331; Whitaker DR, et al, , Arcn. Biochem. Biophys, 1954, 53, p439

**1,4-b-D-Cellohexaitol**[61425-46-5] C<sub>36</sub>H<sub>64</sub>O<sub>31</sub> 992.87

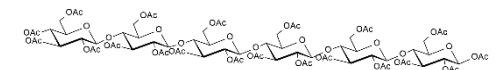
OC31996	5mg	\$94.50
	10mg	\$157.50
	25mg	\$236.50

**D-Cellohexaose**[2478-35-5] C<sub>36</sub>H<sub>62</sub>O<sub>31</sub> 990.86

OC06512	1mg	\$45.00
	2mg	\$70.00
	5mg	\$135.00

**D-Cellohexose eicosacetate**[355012-91-8] C<sub>78</sub>H<sub>102</sub>O<sub>51</sub> 1831.59

OC04684	5mg	\$89.30
	10mg	\$168.00
	25mg	\$336.00

**Cellooctaose**C<sub>48</sub>H<sub>82</sub>O<sub>41</sub> 1315.14

OC61670	1mg	\$295.00
	2mg	\$390.00
	5mg	\$525.00

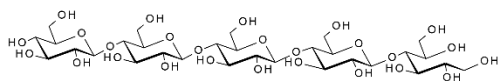


**D-Cello-oligosaccharides**

OC45935	50mg	\$70.00
	100mg	\$125.00
	250mg	\$225.00

**1,4-b-D-Cellopentaitol**

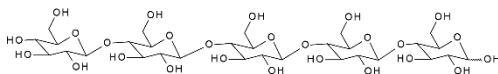
[61473-65-2]	C <sub>30</sub> H <sub>54</sub> O <sub>26</sub>	830.73	
OC31995	5mg	\$99.80	
	10mg	\$157.50	
	25mg	\$247.00	

**Cellopentaosan**

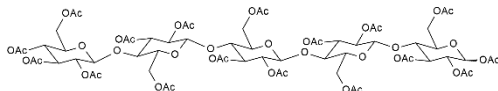
see 1,6-Anhydro-b-D-cellopento-5e, OA46588 on page 32

**D-Cellopentaose**

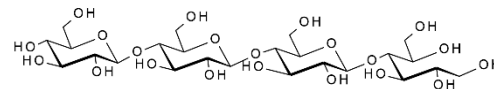
[2240-27-9]	C <sub>30</sub> H <sub>52</sub> O <sub>26</sub>	828.72	
OC04683	1mg	\$45.00	
	2mg	\$70.00	
	5mg	\$125.00	

**D-Cellopento-5e heptadecaacetate**

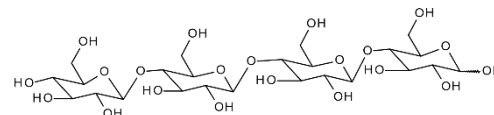
[83058-38-2]	C <sub>64</sub> H <sub>86</sub> O <sub>43</sub>	1543.34	
OC06514	1mg	\$89.30	
	2mg	\$168.00	
	5mg	\$336.00	

**1,4-b-D-Cellotetraitol**

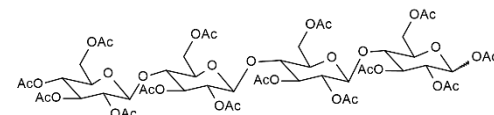
[5548-55-0]	C <sub>24</sub> H <sub>44</sub> O <sub>21</sub>	668.59	
OC31994	10mg	\$99.80	
	25mg	\$184.00	
	50mg	\$304.50	

**D-Cellotetraose**

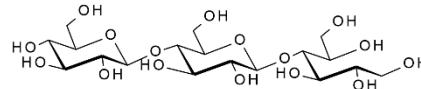
• (Glc-b-1,4)-Glc			
[38819-01-1]	C <sub>24</sub> H <sub>42</sub> O <sub>21</sub>	666.58	
OC04674	5mg	\$65.00	
	10mg	\$95.00	
	25mg	\$175.00	

**D-Cellotetraose tetradecaacetate**

[83058-25-7]	C <sub>52</sub> H <sub>70</sub> O <sub>35</sub>	1255.09	
OC04693	10mg	\$89.30	
	25mg	\$168.00	
	50mg	\$336.00	

**1,4-b-D-Cellotriitol**

[61473-64-1]	C <sub>18</sub> H <sub>34</sub> O <sub>16</sub>	506.45	
OC31993	10mg	\$99.80	
	25mg	\$184.00	
	50mg	\$304.50	



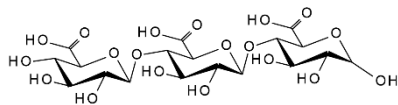
**Cellotronic****Cellotronic acid**

• O-b-D-Glucopyranosyl-(1→4)-O-b-D-glucopyranosyl-(1→4)-D-Gluconic acid

[50819-69-7] C<sub>18</sub>H<sub>32</sub>O<sub>17</sub> 520.44

OC61666

1mg	\$100.00
2mg	\$160.00
5mg	\$320.00

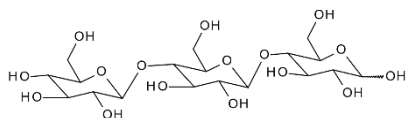
**1,4-b-D-Cellotriose**see *D-Cellotriose*, OC05719 on page 60**D-Cellotriose**

• 1,4-b-D-Cellotriose

[33404-34-1] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OC05719

5mg	\$65.00
10mg	\$95.00
25mg	\$175.00

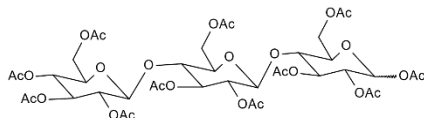
**D-Cellotriose undecaacetate**

• 2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-maltosyl bromide

[17690-94-7] C<sub>40</sub>H<sub>54</sub>O<sub>27</sub> 966.84

OC04692

10mg	\$95.00
25mg	\$175.00
50mg	\$325.00

**Cellulose Glycolic Acid Sodium Salt**see *Carboxymethyl cellulose sodium - Viscosity 1400 - 2000cps*, OC03666 on page 55**Ceramide dihexoside (CDH)**see *Lactosylceramide*, OL16325 on page 171**Ceramide b-lactoside**see *Lactosylceramide*, OL16325 on page 171**Ceramide tetrahexoside**see *GA1-Ganglioside*, OG16191 on page 100**Cer-Glc-Gal(NeuAc-NeuAc)-GalNAc-Gal-NeuAc**see *GT1b-Ganglioside*, OG03923 on page 115**a-Chaconine**[20562-03-2] C<sub>45</sub>H<sub>73</sub>NO<sub>14</sub> 852.06

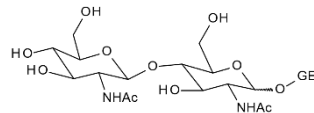
OC29325

1mg	\$110.00
2mg	\$176.00
5mg	\$350.00

**Chikusetsusaponin**see *Ginsenoside Ro*, OG09294 on page 122**Chitobiose GEL**

Price On Application

OC03910

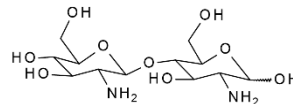
**Chitobiose 2HCl**

• Chitosan dimer dihydrochloride

[577-76-4] C<sub>12</sub>H<sub>24</sub>N<sub>2</sub>O<sub>9</sub>·2HCl 413.25

OC08301

5mg	\$95.00
10mg	\$150.00
25mg	\$250.00

HCl  
HCl

Refs: Agric. Biol. Chem, 1985, 98, p557



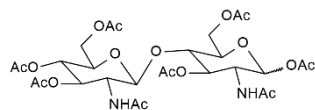


**Chitobiose octaacetate**

• N,N'-Diacetylchitobiose hexaacetate

[7284-18-6][41670-99-9] C<sub>28</sub>H<sub>40</sub>N<sub>2</sub>O<sub>17</sub> 676.62

OC11539

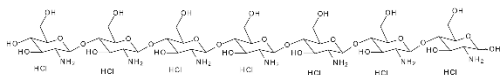
50mg  
100mg  
250mg\$50.00  
\$90.00  
\$150.00**Chitodecaose 10HCl**• Chitodecaose Hydrochloride  
• Chitosan DecamerC<sub>60</sub>H<sub>112</sub>N<sub>10</sub>O<sub>41</sub>·10HCl 1994.18

OC45459

Price On Application

**Chitodecaose Hydrochloride**see *Chitodecaose 10HCl, OC45459 on page 61***Chitoheptaose 7HCl**[68232-35-9] C<sub>42</sub>H<sub>78</sub>N<sub>7</sub>O<sub>29</sub>·7HCl 1401.34

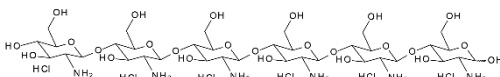
OC09272

1mg  
2mg  
5mg\$95.00  
\$170.00  
\$300.00**Chitohexaose 6HCl**

• Chitosan hexamer

[41708-95-6] C<sub>36</sub>H<sub>68</sub>N<sub>6</sub>O<sub>25</sub>·6HCl 1203.73

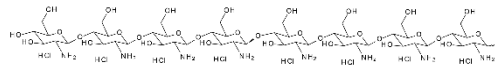
OC09273

1mg  
2mg  
5mg\$75.00  
\$130.00  
\$240.00**Chitooctaose 8HCl**

• Chitosan octamer

[127171-90-8][158812-65-8] C<sub>48</sub>H<sub>90</sub>N<sub>8</sub>O<sub>33</sub>·8HCl 1598.95

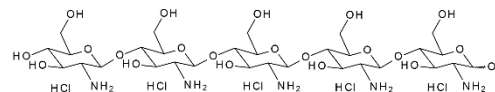
OC28988

1mg  
2mg  
5mg\$100.00  
\$180.00  
\$350.00**Chitooligosaccharide**see *Chitosan oligomer - Molecular weight 5000 - 15000 Da, OC64792 on page 62***chitooligosaccharide**see *Chitosan oligomer - Molecular weight <=3000, OC28900 on page 62***Chitopentaose 5HCl**

• Chitosan pentamer

[117467-64-8][41708-94-5] C<sub>30</sub>H<sub>57</sub>N<sub>5</sub>O<sub>21</sub>·5HCl 1006.01

OC09269

1mg  
2mg  
5mg\$65.00  
\$110.00  
\$190.00**Chitosan Decamer**see *Chitodecaose 10HCl, OC45459 on page 61***Chitosan dimer dihydrochloride**see *Chitobiose 2HCl, OC08301 on page 60***Chitosan HCl**see *Chitosan oligosaccharide HCl, OC45121 on page 62***Chitosan hexamer**see *Chitohexaose 6HCl, OC09273 on page 61***Chitosan octamer**see *Chitooctaose 8HCl, OC28988 on page 61*

**Chitosanolig****Chitosan oligomer - Molecular weight 5000 - 15000 Da**

- Chitosan oligosaccharide
- Chitooligosaccharide

[9012-76-4]

OC64792	50g	\$92.50
	100g	\$139.00
	250g	\$280.00

**Chitosan oligomer - Molecular weight <=3000**

- chitosan oligosaccharide
- chitooligosaccharide

[9012-76-4]

OC28900	100g	\$43.00
	250g	\$75.00
	500g	\$110.00

**Chitosan oligomer (Dp 3-7) - Molecular weight 1000** $(C_6H_{11}NO_4)_n$ 

OC45458	100mg	\$125.00
	250mg	\$215.00
	500mg	\$375.00

**Chitosan oligosaccharide**see *Chitosan oligomer - Molecular weight 5000 - 15000 Da, OC64792 on page 62***chitosan oligosaccharide**see *Chitosan oligomer - Molecular weight <=3000, OC28900 on page 62***Chitosan oligosaccharide HCl**

- Chitosan HCl

[148411-57-8]  $(C_{12}H_{24}N_2O_9)_n$ 

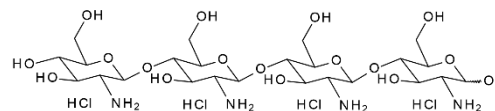
OC45121	100g	\$65.00
	250g	\$125.00
	500g	\$200.00

**Chitosan pentamer**see *Chitopentaose 5HCl, OC09269 on page 61***Chitosan tetramer**see *Chitotetraose 4HCl, OC09457 on page 62***Chitosan trimer**see *Chitotriose 3HCl, OC09458 on page 63***Chitotetraose 4HCl**

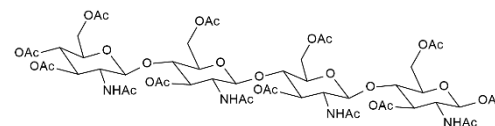
- Chitosan tetramer

[117399-50-5]  $C_{24}H_{46}N_4O_{17} \cdot 4HCl$  808.48

OC09457	5mg	\$95.00
	10mg	\$175.00
	25mg	\$350.00

**Chitotetraose tetradecaacetate**[117399-51-6]  $C_{52}H_{74}N_4O_{31}$  1251.18

OC09744	2mg	\$94.50
	5mg	\$157.50
	10mg	\$262.50



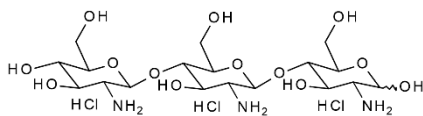
**Chitotriose 3HCl**

• Chitosan trimer

[41708-93-4] C<sub>18</sub>H<sub>35</sub>N<sub>3</sub>O<sub>13</sub>·3HCl 610.87

OC09458

5mg	\$80.00
10mg	\$130.00
25mg	\$220.00

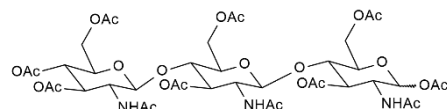
**Chitotriose triacetate**see *N,N',N''-Triacetylchitotriose*, OT06497 on page 275**Chitotriose undecaacetate**

• Tri-N-acetyl-chitotriose octaacetate

[53942-45-3] C<sub>40</sub>H<sub>57</sub>N<sub>3</sub>O<sub>24</sub> 963.89

OC01666

10mg	\$189.00
20mg	\$357.00
50mg	\$840.00



Refs: Yang Y, et al, J. Biochem. 1980, 87, p1003

**6-Chloro-6-deoxy-α-cyclodextrin**C<sub>36</sub>H<sub>54</sub>Cl<sub>6</sub>O<sub>24</sub> 1083.52

OC44651

Price On Application

**6-Chloro-6-deoxy-β-cyclodextrin**

• Heptakis-(6-chloro-6-deoxy)-β-cyclodextrin

C<sub>42</sub>H<sub>63</sub>Cl<sub>7</sub>O<sub>28</sub> 1264.1

OC44673

Price On Application

**6-Chloro-6-deoxy-γ-cyclodextrin**

• Octakis-(6-chloro-6-deoxy)-γ-cyclodextrin

[173094-60-5] C<sub>48</sub>H<sub>72</sub>Cl<sub>8</sub>O<sub>32</sub> 1444.69

OC44688

500mg	\$950.00
1g	\$1420.00
2g	\$2400.00

**6-Chloro-6-deoxy-1',6,6'-trichloro-1',6,6'-trideoxysucrose**see *1',6,6'-Trichloro sucrose*, OT16494 on page 278**Chondroitin disaccharide di-6S**[149458-08-2] C<sub>14</sub>H<sub>21</sub>NNa<sub>2</sub>O<sub>15</sub>S 521.36

OC58537

1mg	\$246.05
2mg	\$393.68

**Chondroitin disaccharide di-diSB trisodium salt**[136132-71-3] C<sub>14</sub>H<sub>18</sub>NNa<sub>3</sub>O<sub>17</sub>S<sub>2</sub> 605.39

OC28901

1mg	\$210.00
2mg	\$388.50
5mg	\$892.50

**Chondroitin disaccharide di-diSD trisodium salt**[149368-03-6] C<sub>14</sub>H<sub>18</sub>NO<sub>17</sub>S<sub>2</sub>Na<sub>3</sub> 605.39

OC28902

1mg	\$400.00
2mg	\$700.00
5mg	\$1550.00



**Chondroitind****Chondroitin disaccharide di-diSE trisodium salt**C<sub>14</sub>H<sub>18</sub>NNa<sub>3</sub>O<sub>17</sub>S<sub>2</sub> 605.39

OC28899

500ug	\$150.00
1mg	\$240.00
2mg	\$430.00

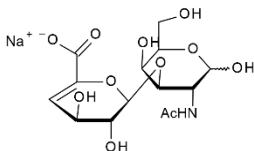
**Chondroitin disaccharide di-0S sodium salt**

• 2-Acetamido-2-deoxy-3-O-(β-D-glucopyranosyl uronic acid)-D-galactose sodium salt

[136132-69-9] C<sub>14</sub>H<sub>20</sub>NNaO<sub>11</sub> 401.3

OC28897

1mg	\$175.00
2mg	\$300.00
5mg	\$625.00

**Chondroitin disaccharide di-triS tetrasodium salt**C<sub>14</sub>H<sub>17</sub>NNa<sub>4</sub>O<sub>20</sub>S<sub>3</sub> 707.44

OC28903

100ug	\$130.00
250ug	\$250.00
500ug	\$390.00

**Chondroitin disaccharide di-UA2S disodium salt**[149368-04-7] C<sub>14</sub>H<sub>19</sub>NNa<sub>2</sub>O<sub>14</sub>S 503.34

OC28904

1mg	\$500.00
2mg	\$980.00
5mg	\$2400.00

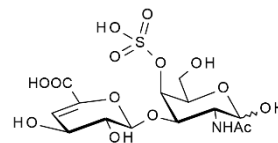
**Chondroitin disaccharide 4S sodium salt**

• Dermatan 4-sulfate disaccharide sodium salt

C<sub>14</sub>H<sub>19</sub>NO<sub>14</sub>SNa<sub>2</sub> 503.34

OC58345

1mg	\$145.00
2mg	\$250.00
5mg	\$575.00

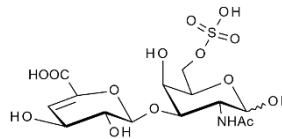
**Chondroitin disaccharide 6S sodium salt**

• Dermatan sulfate disaccharide sodium salt

[149458-08-2] C<sub>14</sub>H<sub>19</sub>NO<sub>14</sub>S·2Na 503.34

OC01702

1mg	\$175.00
2mg	\$320.00
5mg	\$725.00

**Chondroitin disaccharide Δdi-6S**[136132-72-4] C<sub>14</sub>H<sub>19</sub>NNa<sub>2</sub>O<sub>14</sub>S 503.34

OC58539

1mg	\$120.00
2mg	\$210.00
5mg	\$475.00

**Chondroitin disaccharide Δdi-triS**C<sub>14</sub>H<sub>17</sub>NNa<sub>4</sub>O<sub>20</sub>S<sub>3</sub> 707.44

OC58542

1mg	\$78.34
2mg	\$125.34
5mg	\$200.55



**Chondroitin sulphate**

[9007-28-7]

OC138665

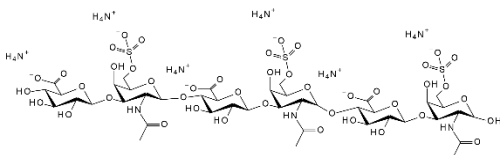
25g	\$50.00
50g	\$80.00
100g	\$120.00

**Chondroitin sulphate hexasaccharide ammonium salt**

1488

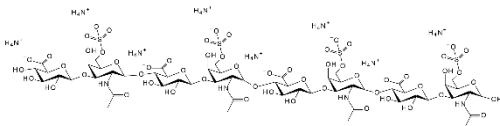
OC58347

1mg	\$250.00
2mg	\$450.00
5mg	\$975.00

**Chondroitin sulphate octasaccharide ammonium salt**

OC58348

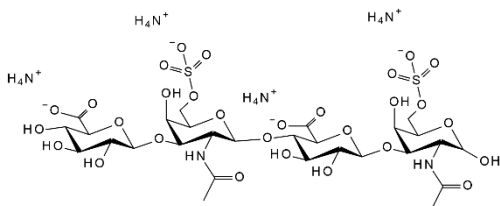
Price On Application

**Chondroitin sulphate tetrasaccharide ammonium salt**

Average MW 992

OC58346

1mg	\$312.00
2mg	\$530.00
5mg	\$1200.00

**Chondrosine**

see 2-Amino-2-deoxy-3-O-(b-D-glucopyranuronosyl)-D-galactopyranose, OA10113 on page 29

**Chondrosin methyl ester HCl**

see O-(Methyl b-d-glucopyranosyluronate)-(1,3)-2-amino-2-deoxy-D-galactopyranose HCl, OM15287 on page 216

**Chonglou Saponin I**

see Polyphyllin D, OP42701 on page 243

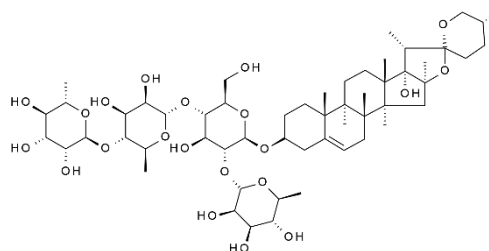
**Chonglou Saponin VII**

• Pennogenin tetraglycoside

[68124-04-9] C<sub>51</sub>H<sub>82</sub>O<sub>21</sub> 1031.18

Price On Application

OC42613

**Cirmtin**

see Hesperidin, OH08129 on page 149

**Cistanoside A**[93236-42-1] C<sub>36</sub>H<sub>48</sub>O<sub>20</sub> 800.75

Price On Application

OC32164

**Clinodiside A**[916347-31-4] C<sub>48</sub>H<sub>78</sub>O<sub>19</sub> 959.12

OC106382

20mg	\$240.00
50mg	\$450.00



**Clinodiside****Clinodiside D**C<sub>47</sub>H<sub>74</sub>O<sub>18</sub> 927.08

OC106381

5mg	\$395.00
10mg	\$720.00
20mg	\$1300.00

**Clinopodiside G**C<sub>48</sub>H<sub>78</sub>O<sub>20</sub> 975.12

OC106380

5mg	\$395.00
10mg	\$720.00
20mg	\$1300.00

**Cluster Lewis x-Lewis a octasaccharide branched**see *Difucosyllacto-N-hexaose (b)*, OD31777 on page 81**Cluster Lewis x octasaccharide branched**see *Difucosyllacto-N-neohexaose 1*, OD07642 on page 82**CMACD**see *Carboxymethyl-a-cyclodextrin sodium salt*, OC34959 on page 55**CMBCD**see *Carboxymethyl-b-cyclodextrin sodium salt*, OC34952 on page 56**GT1c-Oligosaccharide**

• Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc

C<sub>59</sub>H<sub>93</sub>N<sub>4</sub>O<sub>45</sub>Na<sub>3</sub> 1647.34

OO46223

Price On Application

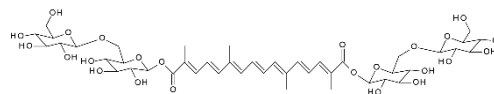
**Collettiside III**see *Dioscin*, OD11563 on page 87**Crocetin digentiobiose ester**see *Crocin I*, OC08286 on page 66**Crocetingentiobiosylglucosyl ester**see *Crocin II*, OC09382 on page 66**Crocin I**

- Bis(6-O-b-D-Glucopyranosyl-b-D-glucopyranosyl) 8,8'-diapo-psi,
- Crocetin digentiobiose ester

[42553-65-1] C<sub>44</sub>H<sub>64</sub>O<sub>24</sub> 976.96

OC08286

50mg	\$95.00
100mg	\$170.00
250mg	\$375.00



Refs: J. Phys. Chem, 1987, 91, p2362

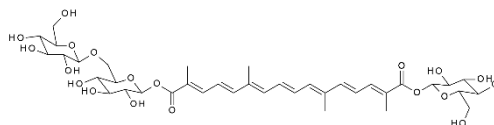
**Crocin II**

- Crocetingentiobiosylglucosyl ester
- Tricrocin

[55750-84-0] C<sub>38</sub>H<sub>54</sub>O<sub>19</sub> 814.42

OC09382

5mg	\$68.30
10mg	\$99.80
25mg	\$173.50



Refs: Ind. J. Chem, 1975, 13, p339

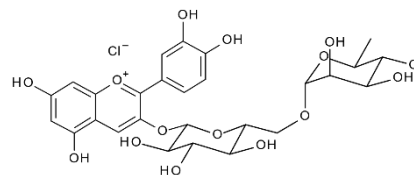
**Crystalline digitalin**see *Digitoxin*, OD09336 on page 83**Cyanidin-3-O-rutinoside chloride**

• Keracyanin chloride

[18719-76-1][18719-59-2] C<sub>27</sub>H<sub>31</sub>O<sub>15</sub>-Cl 630.98

OC16172

1mg	\$45.00
2mg	\$60.00
5mg	\$125.00



**6-Cyano-6-deoxy-a-cyclodextrin**

• Hexakis-(6-cyano-6-deoxy)-alpha-cyclodextrin

C<sub>42</sub>H<sub>54</sub>N<sub>6</sub>O<sub>24</sub> 1026.9

OC44647

Price On Application

**6-Cyano-6-deoxy-b-cyclodextrin**

• Heptakis-(6-cyano-6-deoxy)-b-cyclodextrin

C<sub>49</sub>H<sub>63</sub>N<sub>7</sub>O<sub>28</sub> 1198.05

OC44668

Price On Application

**6-Cyano-6-deoxy-gamma-cyclodextrin**

• Octakis-(6-cyano-6-deoxy)-gamma-cyclodextrin

C<sub>56</sub>H<sub>72</sub>N<sub>8</sub>O<sub>32</sub> 1369.21

OC44685

Price On Application

**a-Cyclodextrin**see *Cyclomaltohexaose*, OC06644 on page 70**b-Cyclodextrin**see *Cyclomaltoheptaose*, OC06646 on page 70**gamma-Cyclodextrin**

• Cyclomaltooctaose

[17465-86-0][91464-90-3] C<sub>48</sub>H<sub>80</sub>O<sub>40</sub> 1297.12

OC12106

100g	\$65.00
250g	\$150.00
500g	\$275.00

**a-Cyclodextrin dihydrogen phosphate sodium salt**[199684-60-1] C<sub>38</sub>H<sub>60</sub>O<sub>30</sub> 972.84

OC34960

250mg	\$157.50
500mg	\$265.00
1g	\$414.80

**b-Cyclodextrin dihydrogen phosphate, sodium salt**

• PBCD.Na

[199684-61-2] C<sub>42</sub>H<sub>70</sub>O<sub>35</sub> 1134.98

OC34948

100mg	\$65.00
250mg	\$100.00
500mg	\$160.00

**gamma-Cyclodextrin dihydrogen phosphate sodium salt**[199684-62-3] C<sub>48</sub>H<sub>80</sub>O<sub>40</sub> 1297.12

OC34944

250mg	\$210.00
500mg	\$345.00
1g	\$525.00

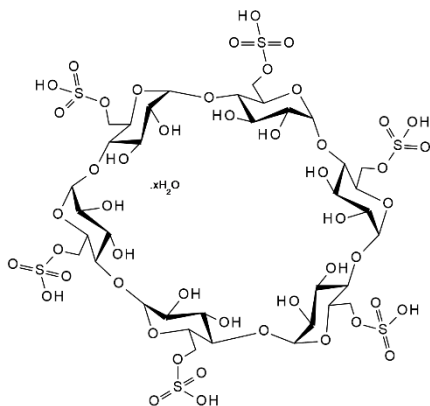
**b-Cyclodextrin heneicosacetate**see *Tri-O-acetyl-b-cyclodextrin*, OT34433 on page 276**b-Cyclodextrin heptakis(2,3,6-tri-O-benzoate)**see *Tri-O-benzoyl-b-cyclodextrin*, OT34943 on page 278**b-Cyclodextrin hydrate**see *Cyclomaltoheptaose hydrate*, OC34052 on page 70

**Cyclodextrin*****α*-Cyclodextrin hydrogen sulfate hydrate**

[699020-02-5]

OC34947

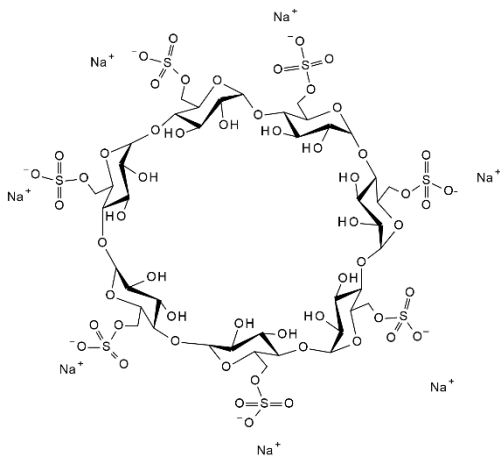
5g	\$195.00
10g	\$300.00
25g	\$625.00

***β*-Cyclodextrin hydrogen sulfate, sodium salt**

[37191-69-8]

OC34946

5g	\$100.00
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***β*-Cyclodextrin methyl ethers**see *Methyl-β-cyclodextrin*, OM11037 on page 213***α*-Cyclodextrin octadecaacetate**

- Hexakis (2,3,6-tri-O-acetyl)-*α*-cyclodextrin
- *α*-Cyclodextrin, octadecaacetate

[23661-37-2] C<sub>72</sub>H<sub>96</sub>O<sub>48</sub> 1729.5

OT35053

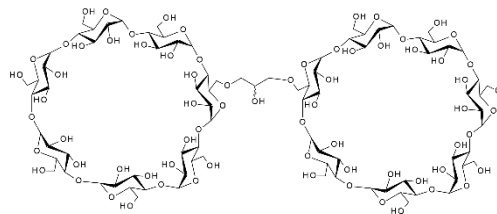
Price On Application

***α*-Cyclodextrin, octadecaacetate**see *α-Cyclodextrin octadecaacetate*, OT35053 on page 68***β*-Cyclodextrin polymer crosslinked with epichlorohydrin**

- Poly-*β*-cyclodextrin (Cross-linked by Epichlorohydrin)

OC33935

2g	\$66.00
5g	\$140.00
10g	\$220.00

***β*-Cyclodextrin sulfobutyl ether sodium salt**

- Sodium sulphobutylether-*β*-cyclodextrin
- SBECD

[182410-00-0] C<sub>70</sub>H<sub>119</sub>Na<sub>7</sub>O<sub>56</sub>S<sub>7</sub> 2242.05

OC15979

25g	\$60.00
50g	\$100.00
100g	\$163.00

***β*-Cyclodextrin sulfobutyl ether sodium salt - USP**[182410-00-0] C<sub>70</sub>H<sub>119</sub>Na<sub>7</sub>O<sub>56</sub>S<sub>7</sub> 2242.05

OC59560

5g	\$60.00
10g	\$100.00
25g	\$200.00





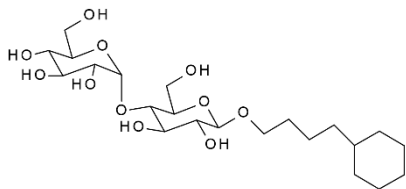
**4-Cyclohexylbutyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside**

• 4-Cyclohexylbutyl-b-D-maltoside

[181135-57-9] C<sub>22</sub>H<sub>40</sub>O<sub>11</sub> 480.55

OC05108

250mg	\$52.50
500mg	\$80.00
1g	\$157.50

**4-Cyclohexylbutyl-b-D-maltoside**

see 4-Cyclohexylbutyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside, OC05108 on page 69

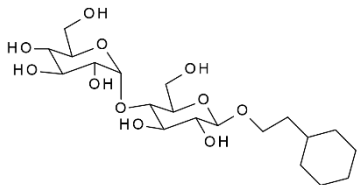
**2-Cyclohexylethyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside**

• 2-Cyclohexylethyl-b-D-maltoside

[260804-65-7] C<sub>20</sub>H<sub>36</sub>O<sub>11</sub> 452.49

OC05105

1g	\$120.00
2g	\$200.00
5g	\$440.00

**2-Cyclohexylethyl-b-D-maltoside**

see 2-Cyclohexylethyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside, OC05105 on page 69

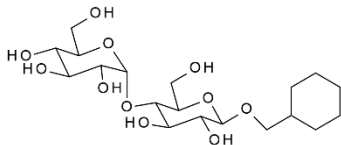
**Cyclohexylmethyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside**

• Cyclohexylmethyl-b-D-maltoside

[260804-64-6] C<sub>19</sub>H<sub>34</sub>O<sub>11</sub> 438.47

OC06509

250mg	\$67.50
500mg	\$105.00
1g	\$189.00

**Cyclohexylmethyl-b-D-maltoside**

see Cyclohexylmethyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside, OC06509 on page 69

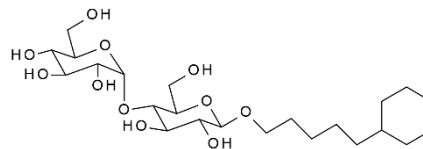
**5-Cyclohexylpentyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside**

• 5-Cyclohexylpentyl-b-D-maltoside

[250692-65-0] C<sub>23</sub>H<sub>42</sub>O<sub>11</sub> 494.57

OC05099

500mg	\$95.00
1g	\$175.00
2g	\$300.00



Refs: Ostermeier C, Harrenga A, Ermier U, et al, Proc. Natl. Acad. Sci. 1997, USA 94, 10547-10553; Cortes DM, Perozo E, Biochem. 1997, 36, 10343-10352; Mirzabekov S, Bannert T, Farzan N, et al, J. Biol. Chem. 1999, 274, 28745-28750; Wester MR, Johnson EF, Marques-Souares C, et al, Biochemistry 2003, 42, 6370-6379

**5-Cyclohexylpentyl-b-D-maltoside**

see 5-Cyclohexylpentyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside, OC05099 on page 69

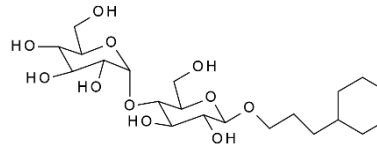
**3-Cyclohexylpropyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside**

• 3-Cyclohexylpropyl-b-D-maltoside

[181135-58-0] C<sub>21</sub>H<sub>38</sub>O<sub>11</sub> 466.52

OC06515

1g	\$157.50
2g	\$262.50
5g	\$472.50

**3-Cyclohexylpropyl-b-D-maltoside**

see 3-Cyclohexylpropyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside, OC06515 on page 69

**Cyclomaltodecaose**

see epsilon-Cyclodextrin, OC74846 on page 91

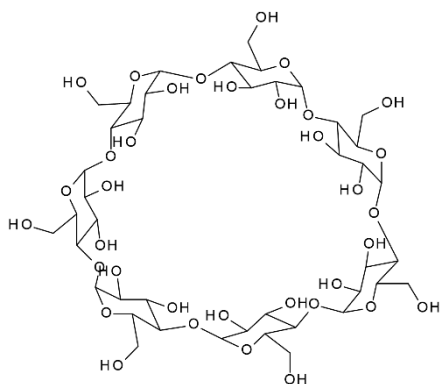
**Cyclomaltohe****Cyclomaltoheptaose**

• b-Cyclodextrin

[7585-39-9] C<sub>42</sub>H<sub>70</sub>O<sub>35</sub> 1134.98

OC06646

500g	\$65.00
1kg	\$115.00
2kg	\$180.00

**Cyclomaltoheptaose hydrate**

• b-Cyclodextrin hydrate

[68168-23-0] C<sub>42</sub>H<sub>70</sub>O<sub>35</sub>·xH<sub>2</sub>O 1134.98 (anhydrous basis)

OC34052

10g	\$29.40
25g	\$47.00
50g	\$75.00

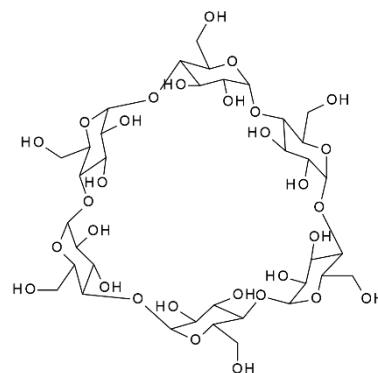
**Cyclomaltohexaose**

• a-Cyclodextrin

[10016-20-3] C<sub>36</sub>H<sub>60</sub>O<sub>30</sub> 972.84

OC06644

100g	\$85.00
250g	\$150.00
500g	\$250.00



Refs: Takahashi, Yukio, Ogawa, Tomoya, Carbohydr. Res, 1987, 164, p277

**Cyclomaltooctaose**see *gamma-Cyclodextrin*, OC12106 on page 67**Cyclomaltopentadecaose**see *kappa-Cyclodextrin*, OC74850 on page 161**Cyclomaltotetradecaose**see *iota-Cyclodextrin*, OC74845 on page 157**Cyclomaltoundecaose**see *zeta-Cyclodextrin*, OC74847 on page 285**2,3,6,2',3',6',2'',3'',4'',6''-Deca-O-acetyl-a-D-cellotrisoyl bromide**

OD76612

Price On Application



## Deoxycyclode

## 2,3,6,2',3',6',2'',3'',4'',6''-Deca-O-acetyl-a-D-maltotriosyl bromide

OD76610

Price On Application



## Decasaccharide dp10

3227.97

OD58525

1mg \$258.02  
2mg \$412.84

## Decyl 4-O-b-D-lactopyranosyl-b-D-lactopyranoside

[1858224-00-6] C<sub>34</sub>H<sub>62</sub>O<sub>21</sub> 806.84

OL44932

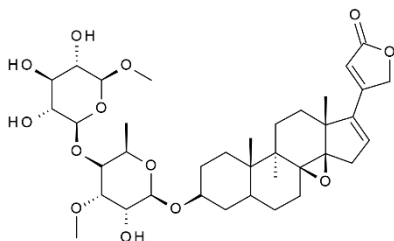
5mg \$90.00  
10mg \$150.00  
25mg \$300.00

## Dehydrodynerigenin glucoxyldigitaloside

[144223-70-1]

OD44163

Price On Application



## Delphinidin 3-sambubioside chloride

[53158-73-9] C<sub>26</sub>H<sub>29</sub>O<sub>16</sub>-Cl 632.95

OD45120

1mg \$175.00  
2mg \$325.00  
5mg \$550.00

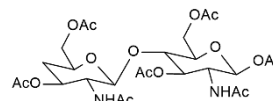
## Demissidine

see *Solanin D*, OS65883 on page 259

## 4-Deoxy-D-chitobiose heptaacetate

C<sub>26</sub>H<sub>38</sub>N<sub>2</sub>O<sub>15</sub> 618.58

OD07339

0.5mg \$262.50  
1mg \$504.00  
2mg \$945.00

## 6-Deoxy-a-cyclodextrin

• Hexakis-(6-deoxy)-a-cyclodextrin

C<sub>38</sub>H<sub>60</sub>O<sub>24</sub> 876.85

OD44646

Price On Application



## 6-Deoxy-b-cyclodextrin

C<sub>42</sub>H<sub>70</sub>O<sub>28</sub> 1022.99

OD44667

Price On Application



**Deoxycyclode****6-Deoxy-gamma-cyclodextrin**• Octakis-(6-deoxy)- $\gamma$ -cyclodextrinC<sub>48</sub>H<sub>80</sub>O<sub>32</sub> 1169.13

OD44683

Price On Application



**2-Deoxy-6-O- [2-deoxy-2-[(R)-3- (dodecanoyloxy) tetradecanoylamino] -3-O- [(R)-3- (tetradecanoyloxy) tetradecanoyl]- b-d-glucopyranosyl] -3-O- [(R)-3-hydroxy tetradecanoyl]- 2-[(R)-3- (hexadecanoyloxy) tetra decanoylamino]- a- d-glucopyranose 1,4'-diphosphate**

see *Lipid A (Salmonella) triethylammonium*, OL58745 on page 180

**2-Deoxy-6-O-{2-deoxy-2-[(R)-3-(dodecanoyloxy) tetradecanoylamino]-3-O-[(R)-3-(tetradecanoyloxy) tetra decanoyl]-b-D-glucopyranosyl}-3-O-[(R)-3-hydroxy tetra decanoyl]-2-[(R)-3-hydroxy tetra decanoylamino]-a-D-glucopyranose 1,4'-diphosphate triethylammonium salt**

see *Lipid A (E. Coli) triethylammonium salt*, OL58744 on page 179

**2-Deoxy-6-O-{2-deoxy-3-O-[(R)-3-hydroxytetradecanoyl]-2-[(R)-3-hydroxytetradecanoylamino-b-D-glucopyranosyl]-3-O-[(R)-3-hydroxytetradecanoyl]-2-[(R)-3-hydroxytetradecanoylamino-a-D-glucopyranose 1,4'- diphosphate**

see *Lipid IVa*, OL09566 on page 179

**3-[(6-Deoxy-2-O-(6-deoxy-a-L-mannopyranosyl)-a-L-mannopyranosyl)oxy]-7-(b-D-glucopyranosyloxy)-5-hydroxy-2-(4-methoxyphenyl)-8-(3-methyl-2-buten-1-yl)-4H-1-benzopyran-4-one**

see *Epimedin C*, OE08122 on page 91

**2-Deoxy-6-O-[3-deoxy-4-C-methyl-3-(methylamino)-b-L-arabinopyranosyl]-D-streptomine**

see *Garamine acetate salt*, OG46090 on page 116

**2-Deoxy-4-O-(2,6-diamino-2,6-dideoxy-a-D-glucopyranosyl)-D-streptomine hydrochloride**

see *Neamine hydrochloride*, ON16477 on page 228**6-Deoxy-6-Fluorocyclomaltoheptaose**[99552-37-1] C<sub>42</sub>H<sub>68</sub>FO<sub>34</sub> 1136.98

OD81686

Price On Application

**2-Deoxy-2-fluoro-D-lactose**C<sub>12</sub>H<sub>21</sub>O<sub>10</sub>F 344.29

OD76699

1mg	\$250.00
2mg	\$440.00
5mg	\$900.00

**6-Deoxy-6-fluoro-D-lactose**C<sub>12</sub>H<sub>21</sub>O<sub>10</sub>F 344.29

OD76669

Price On Application

**6-Deoxy-6-fluoro-D-lactosylamine**

OD76670

Price On Application



**2-O-(6-Deoxy-a-L-galactopyranosyl)-a-D-galactopyranose 1,3,4,6-tetraacetate**

see *1,3,4,6-Tetra-O-acetyl-2-(6-deoxy-a-L-galactopyranosyl)-a-D-galactopyranose*, OT16492 on page 267

**O-6-Deoxy-a-L-galactopyranosyl-(1→2)-O-b-D-galactopyranosyl-(1→4)-D-fructose**

see *2'-O-Fucosyllactulose*, OF158539 on page 100

D

**3-[[6-Deoxy-2-O-(b-D-glucopyranosyl)-a-L-mannopyranosyl]oxy]-7-(b-D-glucopyranosyloxy)-5-hydroxy-2-(4-methoxyphenyl)-8-(3-methyl-2-buten-1-yl)-4H-1-benzopyran-4-one**see *Epimedin A*, OE08120 on page 91**6-Deoxy-6-iodo-a-cyclodextrin**

• Hexakis-(6-deoxy-6-iodo)-a-cyclodextrin

[131105-41-4] C<sub>38</sub>H<sub>54</sub>I<sub>6</sub>O<sub>24</sub> 1632.23

OD44653

50g	\$1750.00
100g	\$2760.00
250g	\$5500.00

**6-Deoxy-6-iodo-b-cyclodextrin**

• Heptakis-(6-deoxy-6-iodo)-b-cyclodextrin

[30754-23-5] C<sub>42</sub>H<sub>63</sub>I<sub>7</sub>O<sub>28</sub> 1904.26

OD44675

500mg	\$85.00
1g	\$150.00
2.5g	\$275.00

**6-deoxy-6-iodo-gamma-cyclodextrin**

• Octakis-(6-deoxy-6-iodo)-γ-cyclodextrin,

[168296-33-1] C<sub>48</sub>H<sub>72</sub>I<sub>8</sub>O<sub>32</sub> 2176.3

OD44696

500mg	\$85.00
1g	\$125.00
2g	\$225.00

**6-Deoxy-D-lactosylamine**

OD76666

Price On Application

**6-O-(6-Deoxy-a-L-mannopyranosyl)-D-fructose**see *Rutinulose*, OR32575 on page 249**6-O-(6-Deoxy-a-L-mannopyranosyl)-b-D-galactopyranose**see *Robinose*, OR34982 on page 248**2-O-(6-Deoxy-a-L-mannopyranosyl)-D-glucopyranose**see *Neohesperidose*, ON08094 on page 229**6-O-(Deoxy-a-L-mannopyranosyl)-D-glucopyranose**see *Rutinose*, OR07039 on page 249**8-[2-O-(6-Deoxy-a-L-mannopyranosyl)-b-D-glucopyranosyl]-5,7-dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one**see *Vitexin-2-O-rhamnoside*, OV08033 on page 283**(4a)-13-[[O-(6-Deoxy-a-L-mannopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl)-oxy]-kaur-16-en-18-oic acid b-D-glucopyranosyl ester**see *Rebaudioside C*, OR44881 on page 246**3-[[6-O-(6-Deoxy-L-mannopyranosyl)-b-D-glucopyranosyl]oxy]-2-(3,4-dihydroxyphenyl)-5,6-dihydroxy-4H-1-benzopyran-4-one**see *Rutin hydrate*, OR03679 on page 249**1-[4-[[2-O-(6-Deoxy-a-L-mannopyranosyl)-b-D-glucopyranosyl]oxy]-2,6-dihydroxyphenyl]-3-(3-hydroxy-4-methoxyphenyl)-1-propanone**see *Neohesperidin dihydrochalcone hydrate*, ON07510 on page 229**7-[6-O-Deoxy-a-L-mannopyranosyl)-b-D-glucopyranosyl]oxy]-5-hydroxy-2-(3-hydroxy-4-methoxyphenyl)-4H-1-benzopyran-4-one**see *Diosmin - 90%*, OD11673 on page 87**(E)-1-[4-[[6-O-(6-Deoxy-a-L-mannopyranosyl)-b-D-glucopyranosyl]oxy]-2-hydroxy-6-methoxyphenyl]-3-(3-hydroxy-4-methoxyphenyl)-2-propen-1-one**see *Hesperidin methylchalcone*, OH34622 on page 149**6-deoxy-6-mercapto-γ-cyclodextrin,**

• Octakis-(6-deoxy-6-mercapto)-γ-cyclodextrin

C<sub>48</sub>H<sub>80</sub>O<sub>32</sub>S<sub>8</sub> 1425.66

OD44734

Price On Application



**Deoxymorphol****1-Deoxy-1-morpholino-D-fructose**[6291-16-3] C<sub>10</sub>H<sub>19</sub>NO<sub>6</sub> 249.26

OD32042

500mg	\$300.00
1g	\$450.00
2g	\$695.00

**2-Deoxy-2-sulfoamino-6-O-sulfo-4-O-(2-O-sulfo-a-L-idopyranuronosyl)-a-D-glucopyranose**see *Heparin derived disaccharide sodium salt, OH04431 on page 141***6-Deoxy-6-thio-a-cyclodextrin**

• Hexakis-(6-deoxy-6-mercapto)-a-cyclodextrin

C<sub>36</sub>H<sub>60</sub>O<sub>24</sub>S<sub>6</sub> 1069.24

OD44666

Price On Application

**6-Deoxy-6-thio-b-cyclodextrin**

• Heptakis-(6-deoxy-6-mercapto)-b-cyclodextrin

C<sub>42</sub>H<sub>70</sub>O<sub>28</sub>S<sub>7</sub> 1247.45

OD44682

Price On Application

**3-[(6-Deoxy-2-O-b-D-xylopyranosyl-a-L-mannopyranosyl)oxy]-7-(b-D-glucopyranosyloxy)-5-hydroxy-2-(4-methoxyphenyl)-8-(3-methyl-2-buten-1-yl)-4H-1-benzopyran-4-one**see *Epimedin B, OE08121 on page 91***Dermatan 4-sulfate disaccharide sodium salt**see *Chondroitin disaccharide 4S sodium salt, OC58345 on page 64***Dermatan sulfate disaccharide sodium salt**see *Chondroitin disaccharide 6S sodium salt, OC01702 on page 64***Dermatan sulphate decasaccharide ammonium salt**

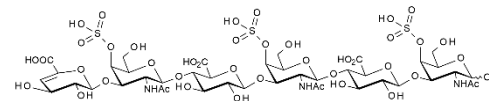
OD58343

Price On Application

**Dermatan sulphate hexasaccharide ammonium salt**

OD58341

1mg \$295.00

**Dermatan sulphate octasaccharide ammonium salt**

OD58342

Price On Application

**Dermatan sulphate sodium salt - Average MW 92000**

[54328-33-5] (ave) 91000

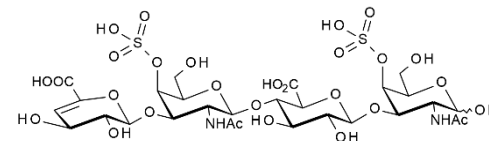
OD153505

50mg	\$195.00
100mg	\$325.00
200mg	\$590.00

**Dermatan sulphate tetrasaccharide ammonium salt**

OD58340

Price On Application



D

**Dextran 110 - MW: 100,000 to 120,000**

[9004-54-0]

OD156909

50g	\$90.00
100g	\$150.00
250g	\$250.00

**Dextran 60 - MW: 54,000 to 66,000**[9004-54-0] (C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>

OD156910

25g	\$85.00
50g	\$150.00
100g	\$250.00

**Dextran 150 - MW: 135,000 to 165,000**

[9004-54-0]

OD156908

50g	\$75.00
100g	\$120.00
200g	\$180.00

**Dextran 750 - MW: 500,000 to 1,000,000**

[9004-54-0]

OD156906

1g	\$100.00
2g	\$180.00
5g	\$300.00

**Dextran 20 - MW: 17,000 to 23,000**

[9004-54-0]

OD156907

50g	\$50.00
100g	\$80.00
250g	\$150.00

**Dextran sulfate sodium salt M.W 150,000**

[9011-18-1]

OD157161

Price On Application

**Dextran 2000 - MW: 1,500,000 to 2,500,000**

[9004-54-0]

OD156913

50g	\$150.00
100g	\$240.00
250g	\$525.00

**DFLNH (b)***see Difucosyllacto-N-hexaose (b), OD31777 on page 81***DFLNH (c)***see Difucosyllacto-N-hexaose (c), OD31778 on page 82***DFLNnH***see Difucosyllacto-N-neohexaose 1, OD07642 on page 82***Dextran 250 - MW: 225,000 to 275,000**

[9004-54-0]

OD156911

50g	\$75.00
100g	\$130.00
250g	\$275.00

**DFpLNH***see Difucosyl-para-lacto-N-hexaose I, OD31774 on page 82***DFpLNH II***see Difucosyl-para-lacto-N-hexaose II, OD02518 on page 82*

**DFpLNnH****DFpLNnH**see *Difucosyl-para-lacto-N-neohexaose*, OD31775 on page 82**2,3-Di-O-acetyl-6-O-tert-butylidimethylsilyl-gamma-cyclodextrin**

• Octakis-(2,3-di-O-acetyl-6-O-tert-butylidimethylsilyl)-γ-cyclodextrin

C<sub>12</sub>H<sub>224</sub>O<sub>56</sub>Si<sub>8</sub> 2313.18

OD44726

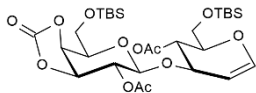
Price On Application

**3,2'-Di-O-acetyl-3',4'-O-carbonyl-6,6'-di-O-tert-butylidimethylsilyl-lactal**

646.87

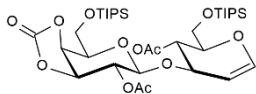
OD04299

Price On Application

**3,2'-Di-O-acetyl-3',4'-O-carbonyl-6,6'-di-O-tert-butylidiphenylsilyl lactal**[163228-35-1] C<sub>35</sub>H<sub>62</sub>O<sub>12</sub>Si<sub>2</sub> 731.03

OD04289

Price On Application

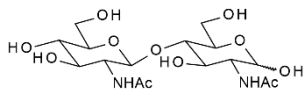
**N,N'-Diacetylchitobiose**

• GlcNAc-b-1,4-GlcNAc

[35061-50-8] C<sub>16</sub>H<sub>28</sub>N<sub>2</sub>O<sub>11</sub> 424.4

OD00769

10mg	\$65.00
25mg	\$120.00
50mg	\$195.00

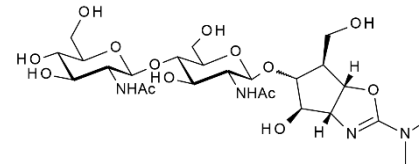


Refs: Carbohydr. Res. 1989, 194, 223

**N,N'-Diacetylchitobiose hexaacetate**see *Chitobiose octaacetate*, OC11539 on page 61**N,N'-Diacetylchitobiosyl allosamizoline**[153322-50-0] C<sub>25</sub>H<sub>42</sub>N<sub>4</sub>O<sub>14</sub> 622.62

OD34921

Price On Application

**2,3-Di-O-acetyl-a-cyclodextrin**

• Hexakis-(2,3-di-O-acetyl)-α-cyclodextrin

C<sub>60</sub>H<sub>84</sub>O<sub>42</sub> 1477.28

OD44657

Price On Application

**2,3-Di-O-acetyl-b-cyclodextrin**

• Heptakis-(2,3-di-O-acetyl)-β-cyclodextrin

C<sub>70</sub>H<sub>98</sub>O<sub>49</sub> 1723.5

OD44676

500mg	\$450.00
1g	\$695.00
2g	\$1250.00

**2,3-Di-O-acetyl-gamma-cyclodextrin**

• Octakis-(2,3-di-O-acetyl)-γ-cyclodextrin

C<sub>80</sub>H<sub>112</sub>O<sub>56</sub> 1969.71

OD44699

Price On Application





**3,6-Di-O-acetyl- $\alpha$ -cyclodextrin**• Hexakis-(3,6-di-O-acetyl)- $\alpha$ -cyclodextrinC<sub>60</sub>H<sub>84</sub>O<sub>42</sub> 1477.28

OD44661

Price On Application

**3,6-Di-O-acetyl- $\gamma$ -cyclodextrin**• Octakis-(3,6-di-O-methyl)- $\gamma$ -cyclodextrinC<sub>80</sub>H<sub>112</sub>O<sub>56</sub> 1969.71

OD44717

Price On Application

**2,3-Di-O-acetyl-6-deoxy- $\gamma$ -cyclodextrin**• Octakis-(2,3-di-O-acetyl-6-deoxy)- $\gamma$ -cyclodextrinC<sub>80</sub>H<sub>112</sub>O<sub>48</sub> 1841.72

OD44702

Price On Application

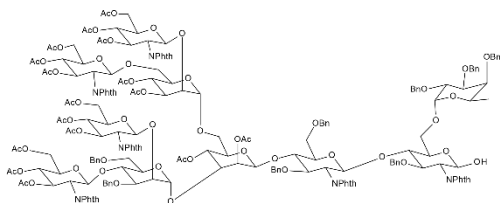


4-O-[4-O-[[2,4-Di-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranosyl]-b-D-mannopyranosyl]]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-6-O-(2,2,4-tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranose

[946164-28-9] C<sub>198</sub>H<sub>200</sub>N<sub>6</sub>O<sub>72</sub> 3791.68

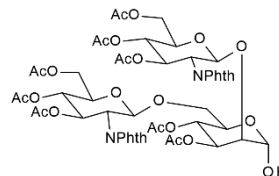
OD11018

1mg \$525.00

**3,4-Di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranose**C<sub>50</sub>H<sub>54</sub>N<sub>2</sub>O<sub>26</sub> 1098.96

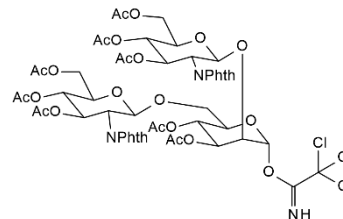
OD10994

5mg	\$94.50
10mg	\$157.50
25mg	\$262.50

**3,4-Di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranosyl trichloroacetimidate**C<sub>52</sub>H<sub>54</sub>Cl<sub>3</sub>N<sub>3</sub>O<sub>26</sub> 1243.35

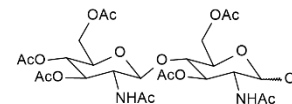
OD10995

5mg	\$63.00
10mg	\$105.00
25mg	\$236.50

**N,N'-Diacetyl-3,6,3',4',6'-penta-O-acetyl-D-chitobiosyl chloride**C<sub>26</sub>H<sub>37</sub>ClN<sub>2</sub>O<sub>15</sub> 653.03

OD07327

25mg	\$89.50
50mg	\$168.00
100mg	\$263.00

**N,N'-Diacetyl-3,6,3',4',6'-penta-O-acetyl-1-chlorochitobioside**

- 2-(Acetylamino)-2-deoxy-4-O-[3,4,6-tri-O-acetyl-2-(acetylamino)-2-deoxy-b-D-glucopyranosyl]-a-D-glucopyranosyl chloride 3,6-diacetate
- 2-Acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-glucopyranosyl chloride 3,3',4',6,6'-pentaacetate

[7531-49-9] C<sub>26</sub>H<sub>37</sub>ClN<sub>2</sub>O<sub>15</sub> 653.03

OD16690

25mg	\$140.00
50mg	\$254.50
100mg	\$462.00



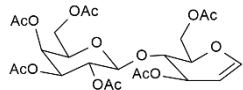
**Diacetyltetr****3,6-Di-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-galactopyranosyl)-D-glucal**

- 3,6,2',3',4',6'-Hexa-O-acetyl-D-lactal
- Lactal hexaacetate

[51450-24-9] C<sub>24</sub>H<sub>32</sub>O<sub>15</sub> 560.5

OD06553

1g	\$85.00
2g	\$140.00
5g	\$225.00

**1,2-diacyl-3-O-[( $\alpha$ -D-galactosyl(1-6)- $\beta$ -D-galactosyl)-sn-glycerol]**see *Digalactosyldiacylglycerol* - 10mg/ml in *Chloroform-Methanol*, OD29187 on page 83**2,3-Di-O-allyl- $\alpha$ -cyclodextrin**

- Hexakis-(2,3-di-O-allyl)- $\alpha$ -cyclodextrin

C<sub>72</sub>H<sub>108</sub>O<sub>30</sub> 1453.61

OD44655

Price On Application

**2,3-Di-O-allyl- $\beta$ -cyclodextrin**

- Heptakis-(2,3-di-O-allyl)- $\beta$ -cyclodextrin

C<sub>84</sub>H<sub>126</sub>O<sub>35</sub> 1695.88

OD44677

Price On Application

**2,3-Di-O-allyl- $\gamma$ -cyclodextrin**

- Octakis-(2,3-di-O-allyl)- $\gamma$ -cyclodextrin

C<sub>96</sub>H<sub>144</sub>O<sub>40</sub> 1938.15

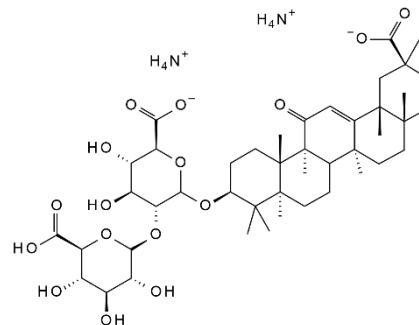
OD44698

Price On Application

**1-(Diaminomethylene)-3-( $\beta$ -D-ribofuranosyl)urea picrate**see *1- $\beta$ -D-Ribofuranosyl-3-guanylurea picrate*, OR63453 on page 248**Diammonium glycyrrhizinate**[79165-06-3] C<sub>42</sub>H<sub>68</sub>N<sub>2</sub>O<sub>16</sub> 856.99

OD40409

50mg	\$50.00
100mg	\$80.00
250mg	\$160.00

**1,6:2,3-Dianhydro-4-O-(2,3-di-O-benzyl-4,6-O-benzylidene- $\beta$ -D-glucopyranosyl)- $\beta$ -D-mannopyranose**[99541-22-7] C<sub>33</sub>H<sub>34</sub>O<sub>9</sub> 574.62

OD46640

Price On Application

**1,6:2,3-Dianhydro-4-O-(2,3-di-O-benzyl- $\beta$ -D-glucopyranosyl)- $\beta$ -D-mannopyranose**C<sub>26</sub>H<sub>30</sub>O<sub>9</sub> 486.51

OD46792

Price On Application



**1,6:2,3-Dianhydro-4-O-(methyl 2,3-di-O-benzyl-b-D-glucopyranosyluronate)-b-D-mannopyranose**

[87907-24-2]

OD46600

Price On Application

**1,3-Diazido-1,2,3-trideoxy-4-O-(2,6-diazido-2,6-dideoxy-a-D-glucopyranosyl)-D-myo-inositol**[671809-10-2] C<sub>12</sub>H<sub>18</sub>N<sub>12</sub>O<sub>6</sub> 426.35

OD63089

Price On Application

**6,6'-Dibehenoyl-a,a'-trehalose**see *Trehalose-6,6'-dibehenate*, OT46136 on page 274**2,3-Di-O-benzoyl-a-cyclodextrin**C<sub>120</sub>H<sub>108</sub>O<sub>42</sub> 2222.12

OD44658

Price On Application

**2,3-Di-O-benzyl-6-O-tert-butyl dimethylsilyl-gamma-cyclodextrin**

• Octakis-(2,3-di-O-benzyl-6-O-tert-butyl dimethylsilyl)-γ-cyclodextrin,

C<sub>208</sub>H<sub>288</sub>O<sub>40</sub>Si<sub>8</sub> 4475.79

OD44725

Price On Application

**2,3-Di-O-benzyl-a-cyclodextrin**

• Hexakis-(2,3-di-O-benzyl)-α-cyclodextrin

C<sub>120</sub>H<sub>132</sub>O<sub>30</sub> 2054.31

OD44656

Price On Application

**2,3-Di-O-benzyl-b-cyclodextrin**

• Heptakis-(2,3-di-O-benzyl)-β-cyclodextrin

C<sub>140</sub>H<sub>154</sub>O<sub>35</sub> 2396.7

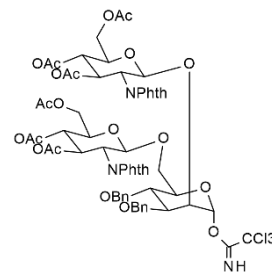
OD44678

Price On Application

**3,4-Di-O-benzyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranosyl trichloroacetimidate**C<sub>62</sub>H<sub>62</sub>Cl<sub>3</sub>N<sub>3</sub>O<sub>24</sub> 1339.52

OD12487

5mg	\$78.80
10mg	\$126.00
100mg	\$1050.00

**2,6-Di-O-tert-butyl dimethylsilyl)-b-cyclodextrin**• Heptakis-(2,6-di-O-tert-butyl dimethylsilyl)-β-cyclodextrin  
• 2,6-Di-TBDMS-β-cyclodextrin[84346-53-2] C<sub>126</sub>H<sub>266</sub>O<sub>35</sub>Si<sub>14</sub> 2734.64

OD44679

Price On Application



**Dibutyldimet****2,6-Di-tert-butylidimethylsilyl-gamma-cyclodextrin**

• Octakis-(2,6-di-O-tert-butylidimethylsilyl)-γ-cyclodextrin

C<sub>144</sub>H<sub>304</sub>O<sub>40</sub>Si<sub>16</sub> 3125.3

OD44703

Price On Application

**3,6-Di-tert-butylmethylsilyl-gamma-cyclodextrin**

• Octakis-(3,6-di-O-tert-butylidimethylsilyl)-γ-cyclodextrin

C<sub>144</sub>H<sub>304</sub>O<sub>40</sub>Si<sub>16</sub> 4738.47

OD44706

Price On Application

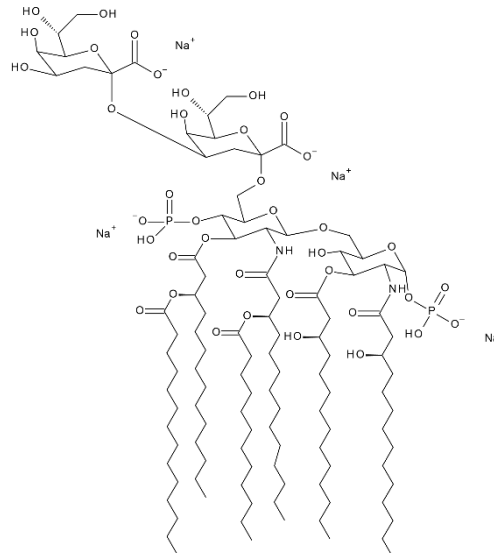
**1,6-Dichloro-1,6-dideoxy-b-D-fructofuranosyl-4-chloro-4-deoxy-a-D-galactopyranoside**see *Sucralose*, OS04165 on page 262**1,6-Dichloro-1,6-dideoxy-b-D-fructofuranosyl-6-chloro-6-deoxy-a-D-glucopyranoside**see *1',6,6'-Trichloro sucrose*, OT16494 on page 278**1,4-Dideoxy-1,4-[(S)-[7-deoxy-5-O-sulfo-D-glycero-D-galacto-heptitol-7-yl]episulfoniumylidene]-D-arabinitol inner salt**see *Kotalanol*, OK146493 on page 163**Di[3-deoxy-D-manno-octulosonyl]-lipid A sodium salt - 0.5mg/ml aqueous solution**

- Lipopolysaccharide
- KDO-(a,2-4)-KDO-(a,2-6)-lipid A
- KDO2-Lipid A

[1246298-62-3] C<sub>110</sub>H<sub>198</sub>N<sub>2</sub>Na<sub>4</sub>O<sub>39</sub>P<sub>2</sub> 2326.65

OD29173

1mg	\$350.00
2mg	\$590.00
5mg	\$1250.00

**[1S-(1a,4a,5b,6a)]-4,6-Dideoxy-4-[[4,5,6-trihydroxy-3-(hydroxymethyl)-2-cyclohexen-1-yl]amino]-a-D-glucopyranoside methyl ester**see *Acarviosin*, OA34981 on page 9**4'',6''-Dideoxy-4''-[[1S]-[1,4,6/5]-4,5,6-trihydroxy-3-hydroxymethyl-2-cyclohexenylamino)-maltotriose**see *Acarbose*, OA00002 on page 9**(3b,16b,23R)-16,23:16,30-Diepoxy-20-hydroxydammar-24-en-3-yIO-6-deoxy-a-L-mannopyranosyl-(1>2)-O-[O-b-D-glucopyranosyl-(1>6)-O-[b-D-xylopyranosyl-(1>2)]-b-D-glucopyranosyl-(1>3)]-a-L-arabinopyranoside**see *Jujuboside A*, OJ09904 on page 160**(3b,16b,23R)-16,23:16,30-Diepoxy-20-hydroxydammar-24-en-3-yIO-6-deoxy-a-L-mannopyranosyl-(1>2)-O-[O-b-D-xylopyranosyl-(1>2)-b-D-glucopyranosyl-(1>3)]-a-L-arabinopyranoside**see *Jujuboside B*, OJ09905 on page 160

**2,6-Diethyl-b-cyclodextrin**

• Heptakis-(2,6-di-O-ethyl)-b-cyclodextrin

[111689-03-3] C<sub>70</sub>H<sub>126</sub>O<sub>35</sub> 1527.73

OD44680

Price On Application

**Difructan**see *Inulobiose*, O164041 on page 157**Difucosyl (1-2,1-2)-iso-lacto-N-octaose (DFILNO (1-2,1-2))**

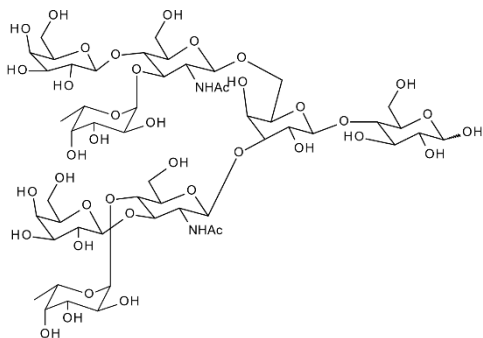
OD13724

Price On Application

**Difucosyllacto-N-hexaose**[98359-76-3] C<sub>52</sub>H<sub>88</sub>N<sub>2</sub>O<sub>39</sub> 1365.25

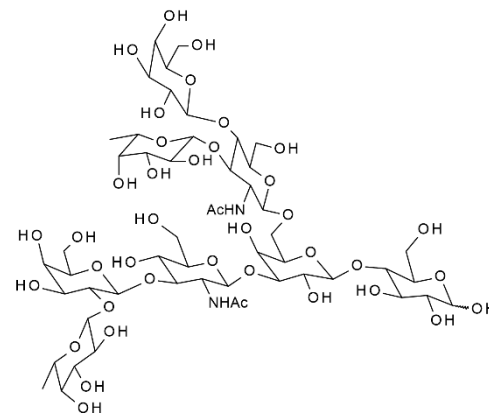
OD06532

250ug	\$315.00
500ug	\$580.00
1mg	\$840.00

**Difucosyllacto-N-hexaose (a)**[64396-27-6] C<sub>52</sub>H<sub>88</sub>N<sub>2</sub>O<sub>39</sub> 1365.25

OD05375

500ug	\$390.00
1mg	\$650.00
2mg	\$1150.00

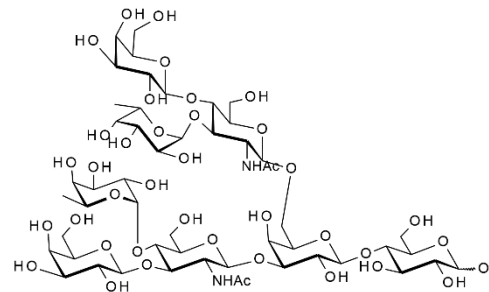
**Difucosyllacto-N-hexaose (b)**

- DFLNH (b)
- Cluster Lewis x-Lewis a octasaccharide branched

[98359-76-3] C<sub>52</sub>H<sub>88</sub>N<sub>2</sub>O<sub>39</sub> 1365.25

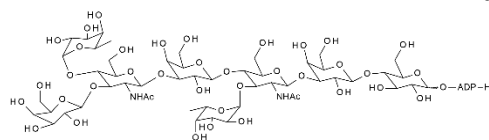
OD31777

250ug	\$495.00
500ug	\$850.00
1mg	\$1625.00

**Difucosyl-para-lacto-N-hexaose-APD-HSA**

OD03884

500ug	\$630.00
1mg	\$1207.50
2mg	\$2205.00



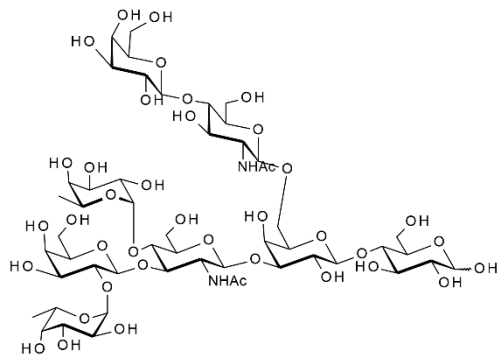
**Difucosyllac****Difucosyllacto-N-hexaose (c)**

- DFLNH (c)
- Lewis b octasaccharide branched

[443361-17-9]  $C_{52}H_{88}N_2O_{39}$  1365.25

OD31778

Price On Application

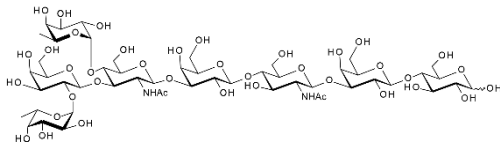
**Difucosyl-para-lacto-N-hexaose I**

- Lewis b octasaccharide linear
- DFpLNH

 $C_{53}H_{91}N_2O_{38}$  1364.28

OD31774

Price On Application

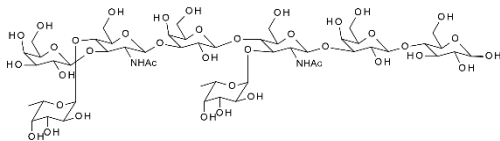
**Difucosyl-para-lacto-N-hexaose II**

- DFpLNH II
- Dimeric Lewis a-Lewis x octasaccharide linear

[64309-01-9]  $C_{52}H_{88}N_2O_{39}$  1365.25

OD02518

250ug	\$315.00
500ug	\$420.00
1mg	\$630.00

**Difucosyl-para-lacto-N-hexaose III**

OD31776

Price On Application

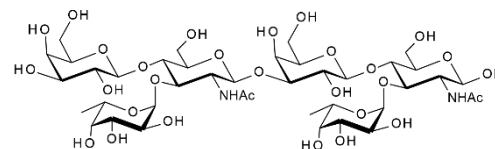
**Difucosyl-para-lacto-N-neohexaose**

- DFpLNnH
- Dimeric Lewis x octasaccharide linear

 $C_{53}H_{91}N_2O_{38}$  1364.28

OD31775

Price On Application

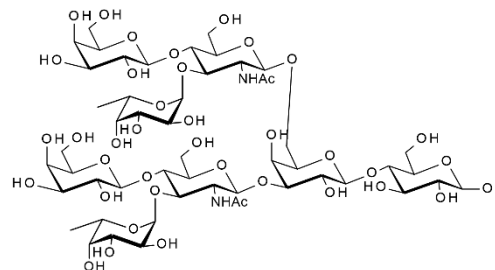
**Difucosyllacto-N-neohexaose 1**

- DFLNnH
- Cluster Lewis x octasaccharide branched

[178555-60-7]  $C_{52}H_{88}N_2O_{39}$  1365.25

OD07642

Price On Application

**Difucosyllacto-N-neohexaose I** $C_{52}H_{88}N_2O_{39}$  1365.25

OD58471

Price On Application



**Difucosyl lactose**see *Lactodifucotetraose*, OL06567 on page 166**Difucosyllacto-N-tetraose**

OD64698

Price On Application

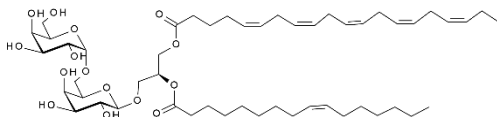
**Digalactosyldiacylglycerol - 10mg/ml in Chloroform-Methanol**

• 1,2-diacyl-3-O-[(a-D-galactosyl(1-6)-b-D-galactosyl)-sn-glycerol

[1531639-03-8] C<sub>51</sub>H<sub>84</sub>O<sub>15</sub> 937.2

OD29187

1mg	\$60.00
2mg	\$90.00
5mg	\$185.00

**Di-a-D-galactosyl-mannopentaose**

1153

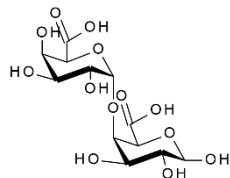
OD44481

10mg	\$95.00
25mg	\$175.00
50mg	\$275.00

**Digalacturonic acid**[5894-59-7][28144-27-6] C<sub>12</sub>H<sub>18</sub>O<sub>13</sub> 370.26

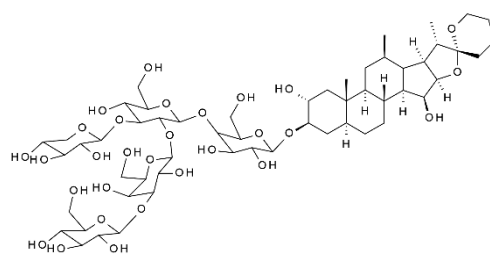
OD01657

10mg	\$136.50
25mg	\$236.50
50mg	\$394.00

**Digitin**see *Digitonin*, OD09275 on page 83**Digitogenin**see *Digitonin*, OD09275 on page 83**Digitonin**• Digitogenin  
• Digitin[11024-24-1] C<sub>66</sub>H<sub>92</sub>O<sub>29</sub> 1229.34

OD09275

100mg	\$50.00
250mg	\$87.50
500mg	\$165.00

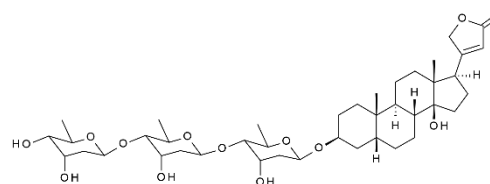


Refs: Z. Physiol. Chem, 1922, 121, p62

**Digitoxin**• Carditoxin  
• Crystalline digitalin[71-63-6] C<sub>41</sub>H<sub>64</sub>O<sub>13</sub> 764.96

OD09336

100mg	\$50.00
250mg	\$95.00
500mg	\$175.00



Refs: Experientia, 1963, 19, p472

**2,4-Di-b-D-glucopyranosyl-3,4,5-trihydroxy-6-[(2E)-3-(4-hydroxyphenyl-1-oxo-2-propen-1-yl)-2,5-cyclohexadien-1-one**see *Hydroxysafflor yellow A*, OH08134 on page 156**Digoxigenin Tridigitoside-b-acetate**see *b-Acetyl digoxin*, OA16442 on page 22

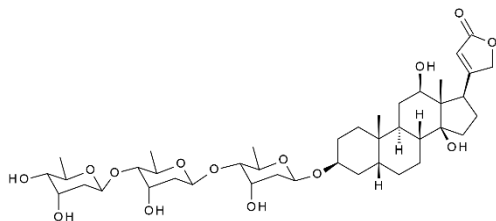
**Digoxin****Digoxin**

• 12b-Hydroxydigitoxin

[20830-75-5] C<sub>41</sub>H<sub>64</sub>O<sub>14</sub> 780.94

OD01513

1g	\$55.00
2g	\$90.00
5g	\$185.00

**Di-guluronic acid sodium salt**C<sub>12</sub>H<sub>16</sub>O<sub>13</sub>Na<sub>2</sub> 414.23

OD61657

1mg	\$65.00
2mg	\$100.00
5mg	\$200.00

**di-HA sodium salt**see *Hyaluronic acid disaccharide sodium salt*, OH11537 on page 154**(3b,6a,12b)-3,12-Dihydroxydammar-24-ene-6,20-diyl bis-b-D-glucopyranoside**see *Ginsenoside Rg1*, OG09289 on page 120**(3b,12b)-12,20-Dihydroxydammar-24-en-3-yl b-D-glucopyranoside**see *20(s)-Ginsenoside Rh2*, OG09293 on page 251**5,7-Dihydroxy-3',4'-Dimethoxyflavanone-7-O-(6-O-a-L-rhamnopyranosyl)-b-D-glucopyranoside**see *Methyl hesperidine*, OM08131 on page 216**2-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-4-oxo-4H-1-benzopyran-3-yl O-b-D-galactopyranosyl-b-D-glucopyranosiduronic acid**[77154-70-2] C<sub>27</sub>H<sub>28</sub>O<sub>18</sub> 640.5

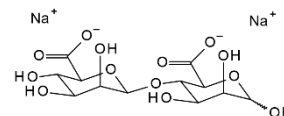
OD76569

Price On Application

**2-(3,4-Dihydroxyphenyl)ethyl 3-O-(6-deoxy-a-L-mannopyranosyl)-6-(3-(3,4-dihydroxyphenyl)-2-propenoate)-b-D-glucopyranoside**see *Isoacteoside*, OI08282 on page 157**2-(3,4-Dihydroxyphenyl)ethyl 4-(3-(3,4-dihydroxyphenyl)-2-propenoate)-3-O-(b-D-glucopyranose)-6-O-(a-L-rhamnopyranose)-b-D-glucopyranoside**see *Echinacoside*, OE08287 on page 90**3,6-Di-O-(a-D-mannopyranosyl)-D-mannopyranose**see *1,3-a-1,6-a-D-Mannotriose*, OM05762 on page 196**3,6-Di-O-(a-D-mannopyranosyl)-D-mannopyranosyl trichloroacetimidate**see *1,3-a-1,6-a-D-Mannotriosyl trichloroacetimidate*, OM46507 on page 197**Di-mannuronic acid sodium salt**C<sub>12</sub>H<sub>16</sub>O<sub>13</sub>Na<sub>2</sub> 414.23

OD45238

5mg	\$125.00
10mg	\$195.00
25mg	\$425.00

**DIMEB**see *2,6-Dimethyl-b-cyclodextrin*, OD29274 on page 86**Dimeric Lewis a-Lewis x octasaccharide linear**see *Difucosyl-para-lacto-N-hexaose II*, OD02518 on page 82



**Dimeric Lewis X hexasaccharide-APE-HSA**

OD03881

Price On Application

**Dimeric Lewis x octasaccharide linear**see *Difucosyl-para-lacto-N-neohexaose*, OD31775 on page 82**2,3-Dimethyl-6-amino-6-deoxy-gamma-cyclodextrin**

• Octakis-(2,3-di-O-methyl-6-amino-6-deoxy)-γ-cyclodextrin

C<sub>64</sub>H<sub>120</sub>N<sub>8</sub>O<sub>32</sub> 1513.67

OD44700

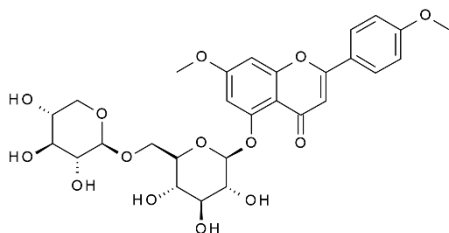
Price On Application

**7,4'-Di-O-methylapigenin 5-O-xylosylglucoside**

[221257-06-3]

OD44161

Price On Application

**2,3-di-O-methyl-6-O-tert-butyl dimethylsilyl-gamma-cyclodextrin**

• Octakis-(2,3-di-O-methyl-6-O-tert-butyl dimethylsilyl)-γ-cyclodextrin

C<sub>112</sub>H<sub>224</sub>O<sub>40</sub>Si<sub>8</sub> 3258.25

OD44724

Price On Application

**2,3-Dimethyl-6-tert-butyl dimethylsilyl-a-cyclodextrin**

• Hexakis-(2,3-di-O-methyl-6-O-tert-butyl dimethylsilyl)-α-cyclodextrin

C<sub>64</sub>H<sub>168</sub>O<sub>30</sub>Si<sub>6</sub> 1826.73

OD44664

Price On Application

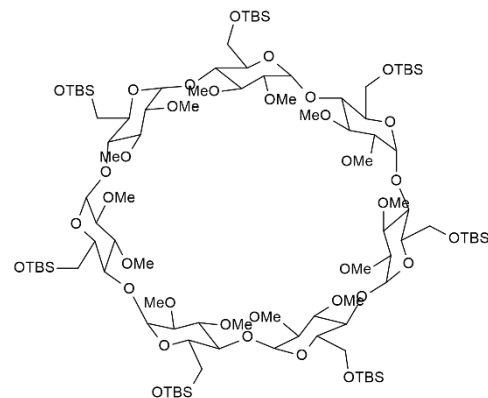
**2,3-Dimethyl-6-tert-butyl dimethylsilyl-b-cyclodextrin**

• 2,3-Di-O-methyl-6-O-tert-butyl dimethylsilyl) cyclomaltoheptaose

[123155-04-4] C<sub>98</sub>H<sub>196</sub>O<sub>35</sub>Si<sub>7</sub> 2131.18

OH16463

50mg	\$150.50
100mg	\$273.00
250mg	\$497.50

Refs: Yan, D, et al, *Science*, 303, 65 (2004); Gou, P.-F,**2,3-Di-O-methyl-6-O-tert-butyl dimethylsilyl) cyclomaltoheptaose**see *2,3-Dimethyl-6-tert-butyl dimethylsilyl-b-cyclodextrin*, OH16463 on page 85**2,3-Dimethyl-a-cyclodextrin**

• Hexakis-(2,3-di-O-methyl)-α-cyclodextrin

C<sub>48</sub>H<sub>84</sub>O<sub>30</sub> 1141.16

OD44654

Price On Application



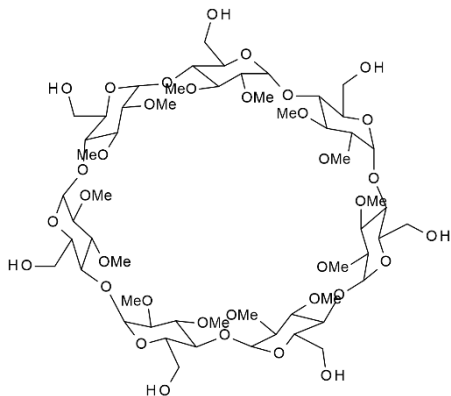
**Dimethylcycl****2,3-Dimethyl- $\beta$ -cyclodextrin**

- Heptakis(2,3-di-O-methyl)- $\beta$ -cyclodextrin
- 2,3-Dimethyl- $\beta$ -cyclodextrin

[123155-05-5]  $C_{56}H_{98}O_{35}$  1331.36

OH16462

10mg	\$126.00
25mg	\$247.00
50mg	\$462.00



Refs: Araki, T, et al, Anal. Sci, 16, 421 (2000); Kiss, T, et al, Eur. J. Pharm. Sci, 40, 376 (2010)

**2,3-Dimethyl- $\gamma$ -cyclodextrin**

- Octakis-(2,3-di-O-methyl)- $\gamma$ -cyclodextrin

 $C_{64}H_{112}O_{40}$  1521.55

OD44697

Price On Application

**2,6-Dimethyl- $\alpha$ -cyclodextrin**

- Hexakis-(2,6-di-O-methyl)- $\alpha$ -cyclodextrin

 $C_{48}H_{84}O_{30}$  1141.16

OD44659

Price On Application

**2,6-Dimethyl- $\beta$ -cyclodextrin**

- DIMEB
- Heptakis(2,6-di-O-methyl)- $\beta$ -cyclodextrin

[51166-71-3]  $C_{56}H_{98}O_{35}$  1331.36

OD29274

10g	\$60.00
25g	\$100.00
50g	\$150.00

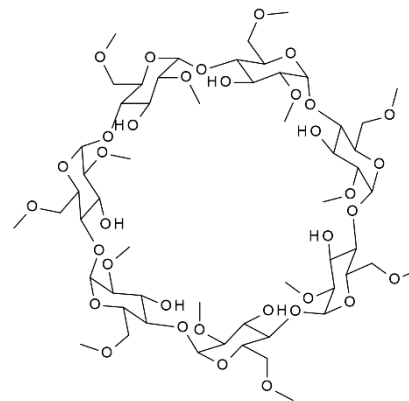
**2,6-Dimethyl- $\beta$ -cyclodextrin - Technical**

- Heptakis(2,6-di-O-methyl)- $\beta$ -cyclodextrin

[51166-71-3]  $C_{56}H_{98}O_{35}$  1331.36

OD08100

10g	\$50.00
25g	\$90.00
50g	\$150.00

**2,6-dimethyl- $\gamma$ -cyclodextrin**

- Octakis-(2,6-di-O-methyl)- $\gamma$ -cyclodextrin

 $C_{64}H_{112}O_{40}$  1521.55

OD44704

Price On Application



**3,6-Dimethyl- $\alpha$ -cyclodextrin**

- Hexakis-(3,6-di-O-methyl)- $\alpha$ -cyclodextrin

C<sub>48</sub>H<sub>84</sub>O<sub>30</sub> 1141.16

OD44660

Price On Application

**2,3-Dimethyl-cyclodextrin-6-hydrogen sulfate, sodium salt**[201346-23-8] C<sub>56</sub>H<sub>96</sub>O<sub>56</sub>S<sub>7</sub>

OH23757

2mg	\$139.90
5mg	\$254.40
10mg	\$462.50



Refs: Friedlander, A, et al, J. Biol. Chem, 261, 7123 (1986)

**2,3-dimethyl-6-deoxy- $\gamma$ -cyclodextrin**

- Octakis-(2,3-di-O-methyl-6-deoxy)- $\gamma$ -cyclodextrin

C<sub>64</sub>H<sub>112</sub>O<sub>32</sub> 1393.55

OD44701

Price On Application

**2,6-di-O-methyl-3-O-n-pentyl- $\gamma$ -cyclodextrin**

- Octakis-(2,6-di-O-methyl-3-O-n-pentyl)- $\gamma$ -cyclodextrin

C<sub>104</sub>H<sub>192</sub>O<sub>40</sub> 2082.61

OD44727

Price On Application

**N-(3,5-Dimethyltricyclo[3.3.1.1<sup>3,7</sup>]dec-1-yl)-4-O- $\beta$ -D-glucopyranosyl-D-glucopyranosylamine**see *Memantine N-cellobioside*, OM156922 on page 198**N-(3,5-dimethyltricyclo[3.3.1.1<sup>3,7</sup>]dec-1-yl)-4-O- $\beta$ -D-glucopyranosyl-D-Glucopyranosylamine**see *Memantine lactose adduct*, OM16466 on page 198**Dioscin**

- Collettiside III
- Polyphyllin III

[19057-60-4] C<sub>45</sub>H<sub>72</sub>O<sub>16</sub> 869.05

OD11563

250mg	\$47.50
500mg	\$75.00
1g	\$115.50



Refs: Yakugaku Zasshi, 1936, 56, p802

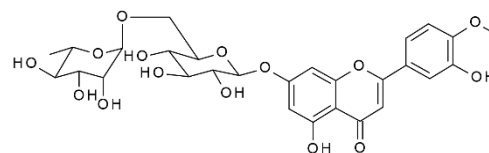
**Diosmetin 7-b-rutinoside**see *Diosmin - 90%*, OD11673 on page 87**Diosmin - 90%**

- 7-[6-O-Deoxy-a-L-mannopyranosyl)- $\beta$ -D-glucopyranosyl]oxy]-5-hydroxy-2-(3-hydroxy-4-methoxyphenyl)-4H-1-benzopyran-4-one
- 3',5,7-Trihydroxy-4'-methoxyflavone 7-rutinoside
- Diosmetin 7-b-rutinoside

[520-27-4] C<sub>28</sub>H<sub>32</sub>O<sub>15</sub> 608.54

OD11673

100g	\$48.00
250g	\$80.00
500g	\$135.00

**2,6-di-O-n-pentyl-3-O-acetyl- $\gamma$ -cyclodextrin**

- Octakis-(2,6-di-O-n-pentyl-3-O-acetyl)- $\gamma$ -cyclodextrin

C<sub>144</sub>H<sub>256</sub>O<sub>48</sub> 2755.54

OD44728

Price On Application



**Dipentylbuty****2,6-di-O-n-pentyl-3-O-n-butyryl-gamma-cyclodextrin**• Octakis-(2,6-di-O-n-pentyl-3-O-n-butyryl)- $\gamma$ -cyclodextrinC<sub>160</sub>H<sub>288</sub>O<sub>48</sub> 2979.97

OD44730

Price On Application

**2,6-di-n-pentyl-gamma-cyclodextrin**• Octakis-(2,6-di-O-n-pentyl)- $\gamma$ -cyclodextrinC<sub>128</sub>H<sub>240</sub>O<sub>40</sub> 2419.25

OD44705

Price On Application

**2,6-di-O-n-pentyl-3-O-trifluoroacetyl-gamma-cyclodextrin**• Octakis-(2,6-di-O-n-pentyl-3-O-trifluoroacetyl)- $\gamma$ -cyclodextrinC<sub>144</sub>H<sub>232</sub>F<sub>24</sub>O<sub>48</sub> 3187.32

OD44729

Price On Application

**N-Diphenylmethylene-O-(2,3,6,2',3',4',6'-hepta-O-acetyl-b-D-lactosyl)-L-serine, benzyl ester**

• N-(Diphenylmethylene)-O-[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-b-D-glucopyranosyl]-L-serine phenylmethyl ester

[337903-59-0] C<sub>48</sub>H<sub>55</sub>NO<sub>20</sub> 977.96

OD16455

50mg	\$110.50
100mg	\$201.00
250mg	\$365.00

**N-(Diphenylmethylene)-O-[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-b-D-glucopyranosyl]-L-serine phenylmethyl ester**see *N-Diphenylmethylene-O-(2,3,6,2',3',4',6'-hepta-O-acetyl-b-D-lactosyl)-L-serine, benzyl ester, OD16455* on page 88**H-Disaccharide**see *Blood Group H disaccharide, OB05907* on page 45**Disaccharide dp2**

1074.91

OD58526

1mg  
2mg\$119.75  
\$191.60**Di-sialylated, galactosylated, bi-antennary N-linked glycan**see *A2 N-Glycan, OA15862* on page 132**Di-sialylated, galactosylated, core-fucosylated bi-antennary N-linked glycan**see *A2F N-Glycan, OA15863* on page 93**Disialyllacto-N-hexaose I**

• DSLNH-I

[137636-98-7] C<sub>62</sub>H<sub>102</sub>N<sub>4</sub>O<sub>47</sub> 1655.47

OD64737

Price On Application

**Disialyllactose**

• GD3-Oligosaccharide

[18409-15-9] C<sub>34</sub>H<sub>54</sub>N<sub>2</sub>O<sub>27</sub>Na<sub>2</sub> 968.77

OD45739

1mg	\$250.00
2mg	\$400.00
5mg	\$600.00



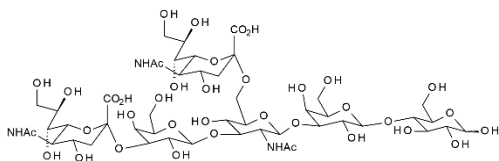
**Disialyllacto-N-tetraose**

• a-NeuNAc-(2-3)-b-Gal-(1-3)-[a-NeuNAc-(2-6)]-b-GlcNAc-(1-3)-b-Gal-(1-4)-Glc

[61278-38-4] C<sub>48</sub>H<sub>79</sub>N<sub>3</sub>O<sub>37</sub> 1290.16

OD00172

1mg	\$300.00
2mg	\$500.00
5mg	\$875.00

**Disialyl, monofucosyllacto-N-hexaose**

• DSFLNH

[263916-84-3] C<sub>68</sub>H<sub>112</sub>N<sub>4</sub>O<sub>51</sub> 1801.61

OD64694

Price On Application

**Disialyloctasaccharide**[58902-60-6] C<sub>76</sub>H<sub>125</sub>N<sub>5</sub>O<sub>57</sub> 2020.81

OD138793

Price On Application

**Disialyl-TF**

• NeuNAc2-3Galb1-3(NeuNAc2-6)GalNAc

C<sub>36</sub>H<sub>59</sub>N<sub>3</sub>O<sub>27</sub> 965.86

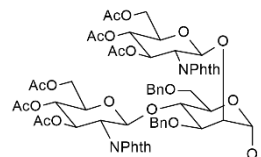
OD58489

Price On Application

**disodium salt, MW: 483.35**see *Heparin disaccharide IV-S disodium salt*, OH28909 on page 144**Disodium salt, mw: 503.34**see *Heparin disaccharide III-A disodium salt*, OH28912 on page 143**2,6-Di-TBDMS-b-cyclodextrin**see *2,6-Di-O-tert-butyl(dimethylsilyl)-b-cyclodextrin*, OD44679 on page 79**4,6-Di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido b-D-glucopyranosyl)-3-6-di-O-benzyl-a-D-mannopyranose**C<sub>60</sub>H<sub>62</sub>N<sub>2</sub>O<sub>24</sub> 1195.13

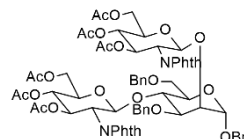
OD10938

50mg	\$105.00
100mg	\$189.00
250mg	\$395.00

**4,6-Di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido b-D-glucopyranosyl)-1,3-6-tri-O-benzyl-a-D-mannopyranoside**C<sub>67</sub>H<sub>68</sub>N<sub>2</sub>O<sub>24</sub> 1285.26

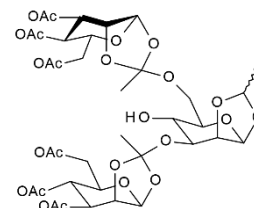
OD10939

1mg	\$94.50
2mg	\$178.50
5mg	\$393.80

**3,6-Di-O-(3,4,6-tri-O-acetyl-b-D-mannopyranosylethylidene)-1,2-O-ethylidene-b-D-mannopyranose**[230963-26-5] C<sub>37</sub>H<sub>52</sub>O<sub>23</sub> 864.79

OD10282

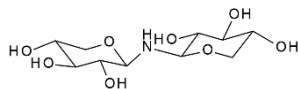
2mg	\$84.00
5mg	\$157.50
10mg	\$231.00



**Dixylopyrano****Di-b-D-xylopyranosylamine**[62983-70-4] C<sub>10</sub>H<sub>19</sub>NO<sub>8</sub> 281.3

OD01043

100mg	\$100.00
250mg	\$185.00
500mg	\$315.00

**DNS-SGN**C<sub>100</sub>H<sub>155</sub>N<sub>9</sub>O<sub>66</sub>S 2571.39

OD60622

50ug	\$41.00
100ug	\$72.00
250ug	\$144.00

**DSFLNH**see *Disialyl, monofucosyllacto-N-hexaose*, OD64694 on page 89**DSLNH-I**see *Disialyllacto-N-hexaose I*, OD64737 on page 88**Dulcoside A**[64432-06-0] C<sub>38</sub>H<sub>60</sub>O<sub>17</sub> 788.87

OD29299

1mg	\$95.00
2mg	\$170.00
5mg	\$295.00

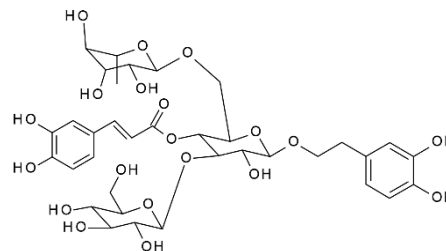
**Dulcoside B**see *Rebaudioside C*, OR44881 on page 246**Echinacoside**

- 2-(3,4-Dihydroxyphenyl)ethyl 4-(3-(3,4-dihydroxyphenyl)-2-propenoate)-3-O-(b-D-glucopyranose)-6-O-(a-L-rhamnopyranose)-b-D-glucopyranoside

[82854-37-3] C<sub>35</sub>H<sub>46</sub>O<sub>20</sub> 786.74

OE08287

10mg	\$80.00
25mg	\$140.00
50mg	\$240.00



Refs: Helvetica Chimica Acta, 1950, 33, p1877

**Empagliflozin 6-O-b-D-glucuronide**C<sub>29</sub>H<sub>35</sub>ClO<sub>13</sub> 627.03

OE76694

Price On Application

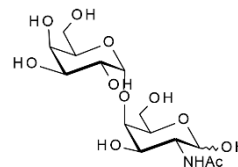
**Epi-N-Acetyl-lactosamine**

- Gala1-4GlcNAc
- 2-Acetamido-2-deoxy-4-O-a-D-galactopyranosyl-D-glucopyranose

[205380-69-4] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OE02427

25mg	\$2500.00
50mg	\$3750.00

**Epilactose**see *4-O-(b-D-Galactopyranosyl)-D-mannopyranose*, OG04727 on page 106

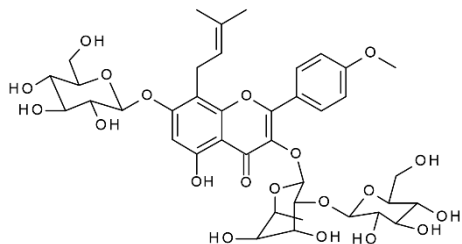
**Epimedin A**

• 3-[(6-Deoxy-2-O-(b-D-glucopyranosyl)-a-L-mannopyranosyl)oxy]-7-(b-D-glucopyranosyloxy)-5-hydroxy-2-(4-methoxyphenyl)-8-(3-methyl-2-buten-1-yl)-4H-1-benzopyran-4-one

[110623-72-8] C<sub>38</sub>H<sub>50</sub>O<sub>20</sub> 838.8

OE08120

2mg \$71.40  
5mg \$140.10  
10mg \$210.00



Refs: Phytochemistry, 1988, 27, p911

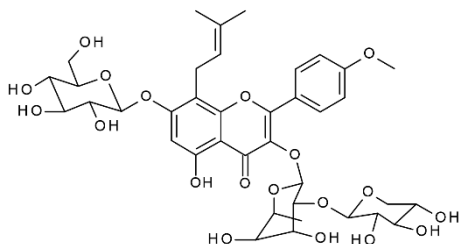
**Epimedin B**

• 3-[(6-Deoxy-2-O-b-D-xylopyranosyl-a-L-mannopyranosyl)oxy]-7-(b-D-glucopyranosyloxy)-5-hydroxy-2-(4-methoxyphenyl)-8-(3-methyl-2-buten-1-yl)-4H-1-benzopyran-4-one

[110623-73-9] C<sub>38</sub>H<sub>48</sub>O<sub>19</sub> 808.78

OE08121

5mg \$65.00  
10mg \$90.00  
25mg \$185.00



Refs: Phytochemistry, 1988, 27, p911

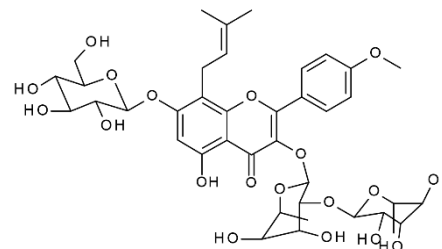
**Epimedin C**

• 3-[(6-Deoxy-2-O-(6-deoxy-a-L-mannopyranosyl)-a-L-mannopyranosyl)oxy]-7-(b-D-glucopyranosyloxy)-5-hydroxy-2-(4-methoxyphenyl)-8-(3-methyl-2-buten-1-yl)-4H-1-benzopyran-4-one

[110642-44-9] C<sub>38</sub>H<sub>50</sub>O<sub>19</sub> 822.8

OE08122

5mg \$55.00  
10mg \$85.00  
25mg \$150.00



Refs: Phytochemistry, 1988, 27, p911

**T Epitope, Threonine**

see 2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranosyl-1-O-L-threonine, OA07377 on page 14

**(3b,4a,16a)-13,28-Epoxy-16,23-dihydroxyoleana-11-en-3-y16-deoxy-3-O-b-D-glucopyranosyl-b-D-fucoside**

see Saikosaponin D, OS09508 on page 250

**(3b,4a,16b)-13,28-Epoxy-16,23-dihydroxyolean-11-en-3-y16-deoxy-3-O-b-D-glucopyranosyl-b-D-fucoside**

see Saikosaponin A, OS09826 on page 249

**(3b,6a,16b,20R,24S)-20,24-Epoxy-6,16,25-trihydroxy-9,19-cyclolanostan-3-y12-O-b-D-glucopyranosyl-b-D-xylopyranoside**

see Astragaloside III, OA09408 on page 37

**epsilon-Cyclodextrin**

• Cyclomaltodecaose

[156510-98-4] C<sub>60</sub>H<sub>100</sub>O<sub>50</sub> 1621.41

OC74846

Price On Application



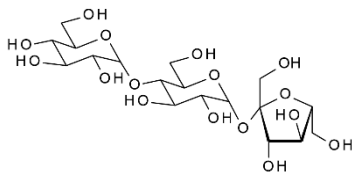
## Erlöse

## Erlöse

- a-D-Glc-(1→4)-a-D-Glc-(1→2)-b-D-Fru,
- a-Maltosyl b-fructofuranoside

[13101-54-7] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OE06974	10mg	\$60.00
	25mg	\$95.00
	50mg	\$160.00



Refs: Füzfai ZS, Boldizsár I, Molnár-Perl I, Journal of Chrom, 2008, 1177, 1, p183



## b-Escin

see *b-Aescin*, OA10870 on page 26

## Escin

see *Aescin*, OA07948 on page 26

## Esculentoside A

- Phytolaccasaponin E

[65497-07-6] C<sub>42</sub>H<sub>68</sub>O<sub>16</sub> 826.96

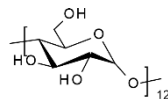
OE33280	5mg	\$90.00
	10mg	\$150.00
	25mg	\$275.00



## eta-Cyclodextrins

OC74848

Price On Application

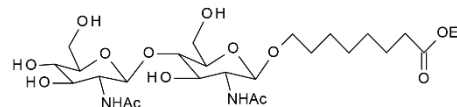


## 8-Ethoxycarbonylheptyl N,N'-di-O-acetyl-b-chitobioside

C<sub>28</sub>H<sub>46</sub>N<sub>2</sub>O<sub>13</sub> 594.65

OE06648

5mg	\$189.00
10mg	\$315.00
25mg	\$630.00



Refs: Lee H-H, et al, Can. J. Chem. 1986, 64, 1912



## Ethyl 2,3,6,2',3',4',6'-hepta-O-acetyl-D-thiolactopyranoside

see *Ethyl 2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-D-thiogalucopyranoside*, OE04439 on page 92

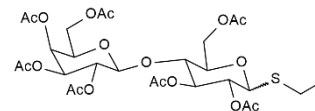
## Ethyl 2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-D-thiogalucopyranoside

- Ethyl 2,3,6,2',3',4',6'-hepta-O-acetyl-D-thiolactopyranoside

C<sub>28</sub>H<sub>40</sub>O<sub>17</sub>S 680.67

OE04439

1g	\$89.30
2g	\$168.00
5g	\$315.00



Refs: Peter T, et al, Liebigs Ann. Chem. 1991, 237

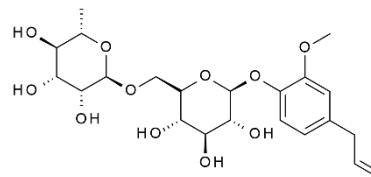


## Eugenol rutinoside

[138772-01-7] C<sub>22</sub>H<sub>32</sub>O<sub>11</sub> 472.48

OE44165

5mg	\$575.00
10mg	\$990.00
25mg	\$1900.00



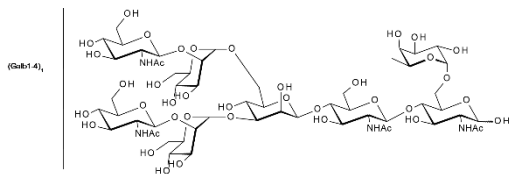


**FA2G1 N-Glycan**

• Asialo, core fucosylated, bi-antennary N-linked glycan

[721918-59-8] C<sub>62</sub>H<sub>104</sub>N<sub>4</sub>O<sub>45</sub> 1625.49

OF15889

10ug  
20ug\$341.30  
\$483.00**FA2G1 N-glycan**

see NA2G1F N-Glycan, ON15968 on page 226

**FA2G2 N-Glycan**

see NA2F N-Glycan, ON10170 on page 225

**FA2G2S1 Glycan**

see A1F N-Glycan, OA16145 on page 93

**FA2G2S2 Glycan**

see A2F N-Glycan, OA15863 on page 93

**FA2 N-glycan**

see NGA2F N-Glycan, ON10163 on page 232

**FA2B N-Glycan**

• Asialo, agalacto, core-fucosylated, bisected, bi-antennary N-linked glycan

1667

OF15888

Price On Application

**FA2B Glycan, 2-AB labelled**

OF58591

Price On Application

**A2FB N-Glycan**

• sialyl, fucosylated, bisected biantennary N-linked glycan

OA28972

Price On Application

**A1F N-Glycan**

- FA2G2S1 Glycan
- Mono-sialylated, galactosylated, core-fucosylated, bi-antennary N-linked glycan

[571188-30-2] C<sub>79</sub>H<sub>131</sub>N<sub>5</sub>O<sub>58</sub> 2078.88

OA16145

10ug  
20ug\$525.00  
\$780.00**A2F N-Glycan**

- Di-sialylated, galactosylated, core-fucosylated bi-antennary N-linked glycan
- FA2G2S2 Glycan

[108341-22-6] C<sub>90</sub>H<sub>148</sub>N<sub>6</sub>O<sub>66</sub> 2370.14

OA15863

10ug  
20ug\$304.50  
\$409.60

## FGlycan

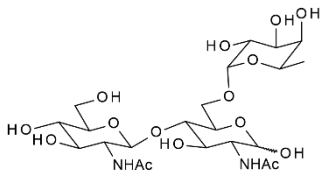
## N2F N-Glycan

• 6-a-Fucosyl N,N'-Diacetylchitobiose

C<sub>18</sub>H<sub>32</sub>O<sub>15</sub> 488.44

ON29284

Price On Application



## A1F Glycan, 2-AB labelled

OA58586

0.2ug

\$155.00



## A2F Glycan, 2-AB labelled

OA58588

0.2ug

\$155.00



## Filiferin B

see *Timosaponin A-III*, OT10477 on page 273

## 2FL

see *2'-Fucosyllactose - Synthetic*, OF06739 on page 99

## Fleetamine

• 3-O-a-D-Glucopyranosyl-swainsonine

OF63532

Price On Application



## Fluorescein-b-cyclodextrin

OF138989

5mg  
10mg\$375.00  
\$450.00

N-Fmoc-O-a-(2-acetamido-2-deoxy-3,4,6-tri-O-acetyl-b-D-glucopyranosyl-b-1-4-2,3,6-tri-O-acetyl-a-D-mannopyranosyl)-L-threonine

OF59612

Price On Application



N-Fmoc-4,6-benzylidene-2'3'4'6'-tetra-O-acetyl T Epitope, Threonyl Allyl Ester

see *O-[2-Acetamido-4,6-O-benzylidene-2-deoxy-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranosyl]-N-Fmoc-L-threonine allyl ester*, OA30715 on page 11

## Forsman antigen pentaose

• GalNAc-a-1,3-GalNAc-b-1,3-Gal-a-1,4-Gal-b1,4Glc

C<sub>34</sub>H<sub>58</sub>N<sub>2</sub>O<sub>26</sub> 910.82

OF45629

5mg

\$525.00



## Forsman antigen triaose

• GalNAc-a-1,3-GalNAc-b-1,3-Gal

C<sub>22</sub>H<sub>38</sub>N<sub>2</sub>O<sub>16</sub> 586.54

OF45630

5mg

\$525.00



**Forssman Disaccharide**

see 2-Acetamido-2-deoxy-3-O-(2-acetamido-2-deoxy-a-D-galactopyranosyl)-D-galactopyranose, OA09257 on page 11

**Forsythiaside**

see Forsythoside A, OF33281 on page 95

**Forsythoside A**

• Forsythiaside

[79916-77-1] C<sub>29</sub>H<sub>36</sub>O<sub>15</sub> 624.59

OF33281

25mg \$85.00  
50mg \$150.00  
100mg \$250.00

**Fortunellin**

see Acacetin-7-neohesperidoside, OA71574 on page 9

**Frub(2-1)-[Frub(2-1)]4-a(2-1)Glc**

see Fructohexasaccharide, OF59774 on page 96

**Frub(2-1)-[Frub(2-1)]6-a(2-1)Glc**

see Fructooctasaccharide, OF59776 on page 96

**Frub(2-1)-[Frub(2-1)]7-a(2-1)Glc**

see Fructononasaccharide, OF59777 on page 96

**Frub(2-1)-[Frub(2-1)]8-a(2-1)Glc**

see Fructodecasaccharide, OF59778 on page 95

**Fructodecasaccharide**

• Frub(2-1)-[Frub(2-1)]8-a(2-1)Glc  
• Fructo-oligosaccharide DP10

C<sub>60</sub>H<sub>102</sub>O<sub>51</sub> 1639.42

OF59778

1mg \$65.00  
2mg \$110.00  
5mg \$230.00

**O-b-D-Fructofuranosyl-(2-1)-b-D-fructofuranosyl-(2-1)-b-D-fructofuranosyl-(2-1)-b-D-fructofuranosyl-a-D-glucopyranose**

see 1,1,1,1-Kestohexose, OK59466 on page 162

**O-b-D-Fructofuranosyl-(2-1)-b-D-fructofuranosyl-(2-1)-b-D-fructofuranosyl-(2-1)-b-D-fructofuranosyl-a-D-glucopyranose**

see 1,1,1,1-Kestopentaose, OK32473 on page 162

**O-b-D-Fructofuranosyl-(1,6)-b-D-fructofuranosyl-a-D-glucopyranoside**

see Neokestose, ON36494 on page 229

**1-O-b-D-Fructo-furanosyl-D-fructose**

see Inulobiose, OI64041 on page 157

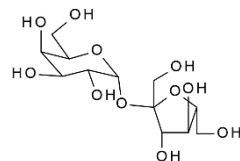
**b-D-Fructofuranosyl-a-D-galactopyranoside**

• 2-O-a-D-Galactopyranosyl-b-D-fructofuranoside

[13322-96-8] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OF02415

Price On Application

**b-D-Fructofuranosyl-O-a-D-galactopyranosyl-1-6-O-a-D-galactopyranosyl-1-6-a-D-glucopyranoside**

see Stachyose - 70%, OS04261 on page 260

**b-D-Fructofuranosyl-a-D-glucopyranoside dioctadecanoate**

see Sucrose distearate - 30% monostearate, OS09350 on page 262

**b-D-Fructofuranosyl-a-D-glucopyranoside monohexadecanoate**

see Sucrose palmitate, OS09351 on page 264

**Fructofurano****b-D-Fructofuranosyl a-D-glucopyranoside 6-octanoate**

- 6-Octanoyl sucrose

[13039-39-9]

OF16036

1mg	\$99.80
2mg	\$189.00
5mg	\$420.00

**b-D-fructofuranosyl 6-O-b-D-glucopyranosyl-a-D-glucopyranoside**see *Gentianose*, OG08097 on page 116**Fructoheptasaccharide**

- Fructo-oligosaccharide DP7
- 1,1,1,1,1-Kestoheptaose

[62512-20-3] C<sub>42</sub>H<sub>72</sub>O<sub>36</sub> 1153

OF59775

1mg	\$65.00
2mg	\$90.00
5mg	\$150.00

**Fructohexasaccharide**

- Fructo-oligosaccharide DP6
- Frub(2-1)-[Frub(2-1)]4-a(2-1)Glc

C<sub>36</sub>H<sub>62</sub>O<sub>31</sub> 990.86

OF59774

1mg	\$65.00
2mg	\$84.00
5mg	\$200.00

**Fructononasaccharide**

- Fructo-oligosaccharide DP9
- Frub(2-1)-[Frub(2-1)]7-a(2-1)Glc

C<sub>54</sub>H<sub>92</sub>O<sub>46</sub> 1477.28

OF59777

1mg	\$65.00
2mg	\$100.00
5mg	\$225.00

**Fructooctasaccharide**

- Fructo-oligosaccharide DP8
- Frub(2-1)-[Frub(2-1)]6-a(2-1)Glc

C<sub>48</sub>H<sub>82</sub>O<sub>41</sub> 1315.14

OF59776

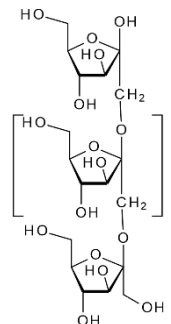
2mg	\$70.00
5mg	\$160.00
10mg	\$300.00

**Fructooligosaccharide**

[223122-07-4]

OF05207

250g	\$62.50
500g	\$105.00
1kg	\$180.00

**Fructo-oligosaccharide DP10**see *Fructodecasaccharide*, OF59778 on page 95**Fructo-oligosaccharide DP6**see *Fructohexasaccharide*, OF59774 on page 96**Fructo-oligosaccharide DP7**see *Fructoheptasaccharide*, OF59775 on page 96**Fructo-oligosaccharide DP8**see *Fructooctasaccharide*, OF59776 on page 96**Fructo-oligosaccharide DP9**see *Fructononasaccharide*, OF59777 on page 96

**D-Fructose-13C6-1,6-diphosphate sodium salt**[488-69-7 (unlabeled)][23784-19-2 (unlabeled)]  $^{13}\text{C}_6\text{H}_{10}\text{Na}_4\text{O}_{12}\text{P}_2 \cdot x\text{H}_2\text{O}$  434.00  
(anhydrous basis)

OF73260	5mg	\$75.00
	10mg	\$105.00
	25mg	\$187.50

**D-Fructose oligosaccharides (DP2-8)**

OF02809	5kg	\$625.00
	10kg	\$900.00
	25kg	\$1250.00

**Fuca1-3Gal**see 3-O-( $\alpha$ -L-Fucopyranosyl)-D-galactopyranose, OF06513 on page 98**Fuca1-4Gal**see 4-O-( $\alpha$ -L-Fucopyranosyl)-D-galactopyranose, OF04619 on page 98**Fuca-2Galb-3(Fuca-4)GlcNAcb-3Gal**

see Lewis B pentasaccharide, OL09570 on page 176

**Fuca-2Galb-4(fuca-3)GlcNAcb-3Gal**

see Lewis Y pentasaccharide, OL09571 on page 178

**Fuca1-2Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc**

see Fucosyl GM1 oligosaccharide, OF46237 on page 99

**Fuca1-2Galb1-3GlcNAc**

see Blood Group H type I trisaccharide, OB01672 on page 51

**Fuca1-2Galb1-4GlcNAc**

see Blood Group H type II trisaccharide, OB08358 on page 50

**Fuca-2Galb-4GlcNAcb-3Gal**

see Blood group H tetraose type II, OB11695 on page 47

**Fuca-2Galb-4GlcNAcb-3Galb-4Glc**

see Blood group H pentaose type II, OH11691 on page 46

**Fuca1-2Galb1-4GlcNAc-b-1-O(CH2)3NHCO(CH2)5NH-biotin**

see Blood Group H type II trisaccharide-sp-biotin, OB31039 on page 51

**Fuca1-2Galb1-3(Neu5Aca2-6)GlcNAcb1-3Galb1-4Glc**

see Sialylacto-N-fucopentaose I, OS58487 on page 253

**Fuc-( $\alpha$ 1,2)-Gal**

see Blood Group H disaccharide, OB05907 on page 45

**Fuc-a-1,2-Gal-b-1,3-(Fuc-a-1,4)GlcNAc**

see Lewis B tetrasaccharide, OL02434 on page 176

**Fuc-a-1,2-Gal-b-1,4(Fuc-a-1,3)GlcNAc**

see Lewis Y tetrasaccharide, OL06521 on page 178

**Fuc-a-1,2-Gal-b-1,3-(Fuc-a-1,4)GlcNAc-O(CH2)3NHCO(CH2)5NH-biotin**

see Lewis B tetrasaccharide-sp-biotin, OL31036 on page 176

**Fuc-a-1,2-Gal-b-1,4(Fuc-a-1,3)GlcNAc-O(CH2)3NHCO(CH2)5NH-biotin**

see Lewis Y tetrasaccharide-sp-biotin, OL31034 on page 178

**Fuc-a-1,2-Gal-b-1,3(Fuc-a-1,4)GlcNAc-b-1,3-Gal-b-1,4(Fuc-a-1,3)GlcNAc-b-1,3-Gal-b-1,4-Glc**

see Trifucosyl-p-lacto-N-hexaose, OT06831 on page 279

**Fuc-a-1,2-Gal-b-1,3-GalNAc-b-1,3-Gal-a-1,4-Gal-b-1,4-Glc**

see Globo-H, OG10692 on page 124

**Fuc-a-1,2-Gal-b-1,3-GalNAc-b-1,3-Gal-a-1,4-Gal-b-1,4-Glc-b-NAc-Prop**

see Globo-H-b-N-acetyl propargyl, OG31308 on page 124

**Fuc-a-1-2-Gal-b-1-3-GalNAc-b-1-4-Gal-b-1-4-Glc-b-ethylazide**

OF136918

Price On Application



**FucGalGlc****Fuc-a-1,2-Gal-b-1,4-Glc**

see 2'-Fucosyllactose - Synthetic, OF06739 on page 99

**Fuc-a-1,2-Gal-b-1,4-Glc-APD-BSA**

see 2'-Fucosyllactose-APD-BSA, OF03900 on page 99

**F** **Fuc-a-1,2-Gal-b-1,3-GlcNAc-b-1,3-Gal-b-1,4-Glc**

see Lacto-N-fucopentaose I, OL05676 on page 166

**Fuc-a1-2-Gal-b1-4-GlcNAc-b-PAA-biotin**

see Blood Group H type II trisaccharide-PAA-biotin, OB45851 on page 51

**Fuc-(a1,2)-[GalNAc-(a1,3)]-b-Gal-O(CH2)3NHCO(CH2)5NH-biotin**

see Blood Group A trisaccharide, spacer-biotin conjugate, OB29936 on page 49

**Fuc(a1-2)Gal(b1-3)[Neu5Ac(a2-6)]GlcNAc(b1-3)Gal(b1-4)Glc**

see Sialyllacto-N-fucopentaose V, OS03891 on page 254

**Fuc-a-1,4-GlcNAc**

see 2-Acetamido-2-deoxy-4-O-(a-L-fucopyranosyl)-D-glucopyranose, OA04447 on page 12

**Fuc-a-1,6-GlcNAc**

see 2-Acetamido-2-deoxy-6-O-(a-L-fucopyranosyl)-D-glucopyranose, OA04444 on page 12

**Fuc-GlcNAc-Asn**

see N-[2-Acetamido-2-deoxy-6-O-(a-L-fucopyranosyl)-D-glucopyranosyl]-L-asparagine, OA29849 on page 13

**2-O-(a-L-Fucopyranosyl)-D-galactopyranose**

see Blood Group H disaccharide, OB05907 on page 45

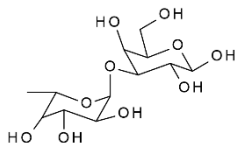
**3-O-(a-L-Fucopyranosyl)-D-galactopyranose**

• Fuca1-3Gal

[120375-11-3] C<sub>12</sub>H<sub>22</sub>O<sub>10</sub> 326.3

OF06513

25mg	\$1715.00
50mg	\$3110.00
100mg	\$5287.00

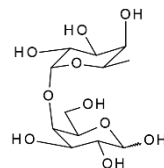
**4-O-(a-L-Fucopyranosyl)-D-galactopyranose**

• Fuca1-4Gal

[24667-50-3] C<sub>12</sub>H<sub>22</sub>O<sub>10</sub> 326.3

OF04619

1mg	\$350.00
2 mg	\$650.00
5 mg	\$1125.00

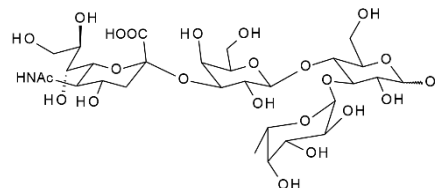
**3-O-(a-L-Fucopyranosyl)-4-O-(3-sialyl-b-D-galactopyranosyl)-D-glucose**

• Neu5Ac-a-2,3-Gal-b-1,4(Fuca1,3)Glc

C<sub>29</sub>H<sub>49</sub>NO<sub>23</sub> 779.71

OF05427

5mg	\$525.00
10mg	\$945.00
25mg	\$1575.00

**Fucosylated monosialoganglioside GM1**

see Fucosyl-GM1 ganglioside, OF63366 on page 99

**6-a-Fucosyl chitobiose**

• GlcNb1-4(Fuca1-6)GlcN

Price On Application

OF76592

**6-a-Fucosyl N,N'-Diacylchitobiose**

see N2F N-Glycan, ON29284 on page 94

**3-Fucosyl GlcNAc**

see 2-Acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-D-glucopyranose, OA06139 on page 12

**Fucosyl-GM1 ganglioside**

• Fucosylated monosialoganglioside GM1

[71812-11-8] C<sub>79</sub>H<sub>141</sub>N<sub>3</sub>O<sub>35</sub> 1692.96

OF63366

0.5mg	\$425.00
1mg	\$720.00
2mg	\$1240.00

**Fucosyl GM1 oligosaccharide**

• Fuca1-2Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc

C<sub>43</sub>H<sub>71</sub>N<sub>2</sub>O<sub>33</sub>Na 1167.01

OF46237

Price On Application

**2'-Fucosyllactose - min 90%**[41263-94-9] C<sub>18</sub>H<sub>32</sub>O<sub>15</sub> 488.44

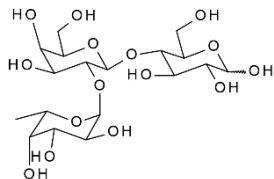
OF137553

5mg	\$40.00
10mg	\$50.00
25mg	\$100.00

**2'-Fucosyllactose - Synthetic**• Fuc-a-1,2-Gal-b-1,4-Glc  
• 2FL[41263-94-9] C<sub>18</sub>H<sub>32</sub>O<sub>15</sub> 488.44

OF06739

10mg	\$50.00
25mg	\$81.25
50mg	\$115.00



Refs: Johnson PH, Donald ASR, Feeney J, Watkins WM, Glycoconjugate J. 1992, Vol9, No5, p251-264

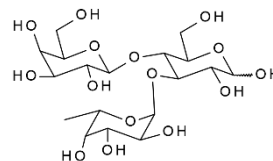
**3-Fucosyllactose**

• Galb-4(Fuca-3)Glc

[41312-47-4] C<sub>18</sub>H<sub>32</sub>O<sub>15</sub> 488.44

OF05673

2mg	\$60.00
5mg	\$100.00
10mg	\$170.00

**6'-Fucosyllactose**C<sub>18</sub>H<sub>32</sub>O<sub>15</sub> 488.44

OF58223

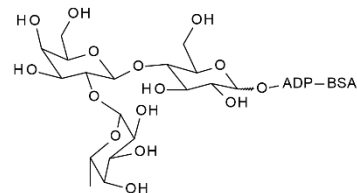
Price On Application

**2'-Fucosyllactose-APD-BSA**

• Fuc-a-1,2-Gal-b-1,4-Glc-APD-BSA

OF03900

500ug	\$225.00
1mg	\$395.00
2mg	\$700.00

**2'-Fucosyllactose-BSA**

OF58562

1mg	\$850.00
2mg	\$1450.00
5mg	\$2875.00



**Fucosyllacto****3-Fucosyllactose-BSA**

OF58387	1mg	\$600.14
	2mg	\$960.22
	5mg	\$1536.35

**2'-Fucosyllactose peracetate**C<sub>38</sub>H<sub>52</sub>O<sub>25</sub> 908.8

OF59546	1mg	\$90.00
	2mg	\$150.00
	5mg	\$300.00

**2'-O-Fucosyllactulose**

• O-6-Deoxy-a-L-galactopyranosyl-(1→2)-O-b-D-galactopyranosyl-(1→4)-D-fructose

[1672706-30-7] C<sub>18</sub>H<sub>32</sub>O<sub>15</sub> 488.44

Price On Application

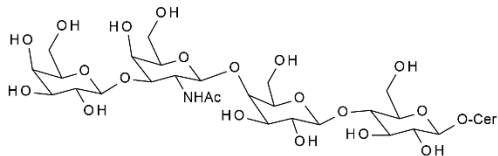
OF158539

**Fungitetraose**see *Nystose*, ON07511 on page 235**GA1-Ganglioside**

- Ganglio-N-tetraosylceramide
- Ceramide tetrahexoside

[71012-19-6][71012-19-2]

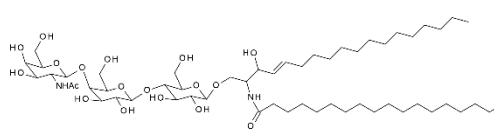
OG16191	1mg	\$315.00
	2mg	\$550.00
	5mg	\$1050.00

**GA2-Ganglioside**

- Asialoganglioside-GM2
- Gangliosyl ceramide

[35960-33-9] C<sub>56</sub>H<sub>104</sub>N<sub>2</sub>O<sub>18</sub> 1093.43

OG16402	1mg	\$267.80
	2mg	\$483.00
	5mg	\$1023.80

**b1-3 Gal-N-acetyl galactosaminyl-b1-4 Gal-b1-4-Glc**

707.63

OG58462	1mg	\$149.69
	2mg	\$239.50
	5mg	\$383.20

**Gal[2346Ac]b(1-3)GalN3[46Bzd]-b-MP**

- 4-Methoxyphenyl 3-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-2-azido-4,6-O-benzylidene-2-deoxy-b-D-galactopyranoside

C<sub>34</sub>H<sub>39</sub>N<sub>3</sub>O<sub>15</sub> 729.68

OG60597	100mg	\$43.00
	250mg	\$85.00
	500mg	\$147.00

**Gal[2346Ac]b(1-3)GlcN3[46Bzd]-b-MP**

- 4-Methoxyphenyl 3-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-2-azido-4,6-O-benzylidene-2-deoxy-b-D-glucopyranoside

C<sub>34</sub>H<sub>39</sub>N<sub>3</sub>O<sub>15</sub> 729.68

OG60595	250mg	\$66.00
	500mg	\$114.00
	1g	\$199.00





**Gal[2346Ac]b(1-3)GlcNPhth[46Bzd]-b-MP**

• 4-Methoxyphenyl 3-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-4,6-O-benzylidene-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>42</sub>H<sub>43</sub>NO<sub>17</sub> 833.79

OG60596

250mg	\$57.00
500mg	\$99.00
1g	\$173.00

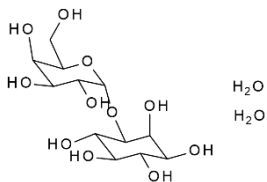
**Galactinol hydrate**

• 1-O-α-D-Galactopyranosyl-L-myo-inositol hydrate  
• myo-Inositol galactoside

[16908-86-4][3687-64-7] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·xH<sub>2</sub>O 342.30 (anhydrous basis)

OG07040

50mg	\$45.00
100mg	\$80.00
250mg	\$175.00

**α1-2Galactobiose**

see 2-O-(α-D-Galactopyranosyl)-D-galactopyranose, OG04739 on page 102

**α1-3Galactobiose**

see 3-O-(α-D-Galactopyranosyl)-D-galactopyranose, OG06491 on page 102

**α1-4Galactobiose**

see 4-O-(α-D-Galactopyranosyl)-D-galactopyranose, OG06113 on page 103

**β1-6-Galactobiose**

see 6-O-(β-D-Galactopyranosyl)-D-galactopyranose, OG05008 on page 103

**β1-3Galactobiose**

see 3-O-(β-D-Galactopyranosyl)-D-galactopyranose, OG10186 on page 103

**β1-4Galactobiose**

see 4-O-(β-D-Galactopyranosyl)-D-galactopyranose, OG15071 on page 103

**Galacto-N-biose**

see 2-Acetamido-2-deoxy-3-O-(β-D-galactopyranosyl)-D-galactopyranose, OA01686 on page 13

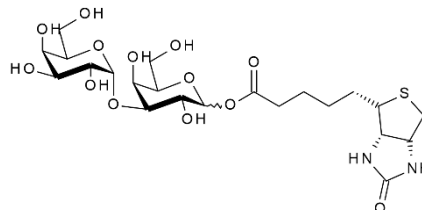
**α1-3-Galactobiose-biotin**

• Gala1-3Galb-sp-biotin

C<sub>22</sub>H<sub>36</sub>N<sub>2</sub>O<sub>13</sub>S 568.59

OG10440

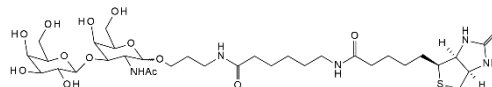
100ug	\$90.00
250ug	\$157.50
500ug	\$265.00

**Galacto-N-biose-sp-biotin**

C<sub>33</sub>H<sub>57</sub>N<sub>5</sub>O<sub>14</sub>S 779.9

OG35063

1mg	\$178.50
2mg	\$346.50

**α1-3 Galactobiosyl b-methyl glycoside**

356.32

OG58473

2mg	\$60.00
5mg	\$224.50
10mg	\$359.20

**Galactooligosaccharides**

• GOS

OG32134	100g	\$70.00
	250g	\$125.00
	500g	\$230.00



**Galactopyran****b-D-Galactopyranosyl-(1→4)-2-acetamido-2-deoxy-D-glucose**see *N-Acetyl-D-lactosamine BSA (3 atom spacer)*, *OA00752* on page 23**Galactopyranosyl-b-1,4-N-acetyl-D-glucosamine**see *N-Acetyl-D-lactosamine*, *OA08244* on page 23**4-O-b-D-Galactopyranosyl]-b-D-N-acetylglucosamine**see *2-Acetamido-2-deoxy-4-O-([4-O-b-D-galactopyranosyl]-b-D-galactopyranosyl)-D-glucopyranose*, *OA07925* on page 14**D-Galactopyranosyl-(b1-3)-[N-acetylneuraminy-(a2-6)]-D-N-acetylglucosaminyl serine**

• Gal b1-3(NeuNAca2-6)GalNAc a1-O-Serine

C<sub>28</sub>H<sub>47</sub>N<sub>3</sub>O<sub>21</sub> 761.68

OG15272

0.5mg	\$300.00
1mg	\$525.00
2mg	\$882.00

**D-Galactopyranosyl-(b1-3)-[N-acetylneuraminy-(a2-6)]-D-N-acetylglucosaminyl serine-biotin**

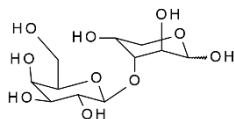
OG15984

Price On Application

**3-O-(b-D-Galactopyranosyl)-D-arabinose**[6057-48-3] C<sub>11</sub>H<sub>20</sub>O<sub>10</sub> 312.27

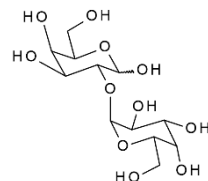
OG05098

50mg	\$85.00
100mg	\$150.00
250mg	\$250.00

**4-O-(b-D-Galactopyranosyl)-D-fructofuranose**see *Lactulose*, *OL03995* on page 172**6-O-(a-D-Galactopyranosyl)-D-fructofuranose**see *Melibiulose*, *OM32574* on page 198**2-O-a-D-Galactopyranosyl-b-D-fructofuranoside**see *b-D-Fructofuranosyl-a-D-galactopyranoside*, *OF02415* on page 95**2-O-(3-O[a-D-Galactopyranosyl]-a-L-fucopyranosyl)-D-galactopyranose**see *Blood Group B trisaccharide*, *OB01663* on page 47**2-O-(a-D-Galactopyranosyl)-D-galactopyranose**• Gal-a-1,2-Gal  
• a-1-2Galactobiose[93601-68-4] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG04739

1mg	\$94.50
2mg	\$150.00
5mg	\$250.00



Refs: Abramenko IV, et al. *Tsitologiya* 1993, 35, 5, p91; Kelly RF, et al. *Mol. Microbiol.* 1993, 10, 3, p615; Storz CA, et al. *J. Carbohydr. Chem.* 1994, 13, 2, p235; Neethling FA, et al. *Transplantation* 1994, 57, 6, p959

**2-O-(b-D-Galactopyranosyl)-D-galactopyranose**[5112-34-5] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

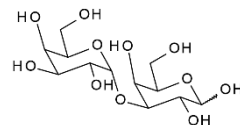
OG158747

10mg	\$1400.00
25mg	\$2100.00

**3-O-(a-D-Galactopyranosyl)-D-galactopyranose**• Gal-a-1,3-Gal  
• a-1-3Galactobiose[13168-24-6] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG06491

5mg	\$95.00
10mg	\$185.00
25mg	\$350.00



Refs: Lawson, et al. *Am. J. Path.* 2001, p159; Abramenko IV, et al. *Tsitologiya* 1993, 35, 5, p91; Neethling FA, et al. *Transplantation* 1994, 57, 6, p959; Storz CA, et al. *Carbohydr. Chem.* 1994, 13, 2, p235; Kelly RF, et al. *Mol. Microbiol.* 1993, 10, 3, p615

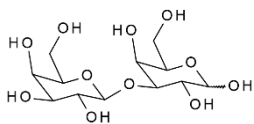
**3-O-(b-D-Galactopyranosyl)-D-galactopyranose**

• b1-3Galactobiose

C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

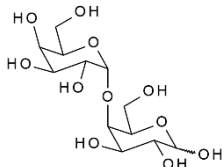
OG10186

1mg	\$231.00
2mg	\$357.00
5mg	\$866.30

**4-O-(a-D-Galactopyranosyl)-D-galactopyranose**• Gala1,4Gal  
• a1-4Galactobiose[80446-85-1][13117-26-5] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG06113

1mg	\$183.80
2mg	\$262.50
5mg	\$498.80



Refs: Kihlberg J, Frejdt T, Jansson K, Magnusson G, Carbohydr. Res. 1988, 176, 2, p287; Race RR, et al, Blood Groups in Man, Blackwell 1975; Kallenius G, et al, FEMS Lett. 1983, 7, p297

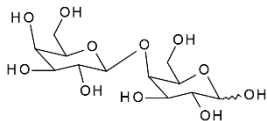
**4-O-(b-D-Galactopyranosyl)-D-galactopyranose**

• b1-4Galactobiose

[2152-98-9] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.29

OG15071

1mg	\$75.00
2mg	\$130.00
5mg	\$285.00

**6-O-(a-D-Galactopyranosyl)-D-galactopyranose**[902-54-5] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

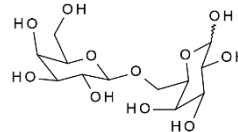
OG45699

1mg	\$110.00
2mg	\$190.00
5mg	\$325.00

**6-O-(b-D-Galactopyranosyl)-D-galactopyranose**• b-1-6-Galactobiose  
• D-Galactose impurity B[5077-31-6] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG05008

1mg	\$45.00
2mg	\$70.00
5mg	\$115.00

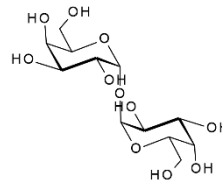


Refs: Glaudemans CPJ, et al, Carbohydr. Res. 1974, 40, p129

**a-D-Galactopyranosyl-(1-1)-a-D-galactopyranoside**[28140-35-4] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG31738

500mg	\$2000.00
1g	\$3200.00
2g	\$5400.00

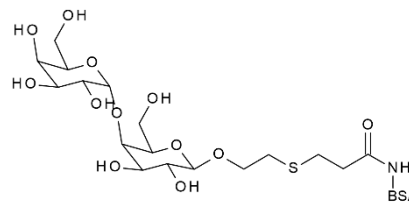
**4-O-(a-D-Galactopyranosyl)-b-D-galactopyranosyl-CETE-BSA Conjugate**

• Gal-a-1,4-Gal-CETE-BSA Conjugate

77000

OG04420

1mg	\$262.50
2mg	\$472.50
5mg	\$945.00

**a-D-Galactopyranosyl-(1-6)-a-D-galactopyranosyl-(1-6)-a-D-galactopyranosyl-(1-6)-D-glucose**see *Verbascotetraose*, OV10601 on page 283**a-D-Galactopyranosyl-(1-3)-b-D-galactopyranosyl-(1-4)-D-galactose**see *3a,4b-Galactotriose*, OG00715 on page 109

## Galactopyran

**b-D-Galactopyranosyl-(1-4)-b-D-galactopyranosyl-(1-4)-D-galactose**

- 1,4-b-Galactotriose
- b-D-Gal-(1->4)-b-D-Gal-(1->4)-b-D-Gal

[6118-87-2][400091-44-3] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

Price On Application

OG45631

**4-O-(3-O-b-D-Galactopyranosyl)-b-D-galactopyranosyl-D-glucopyranose**

see 3'-Galactosyllactose, OG15069 on page 107

**4-O-(4-O-b-D-Galactopyranosyl)-b-D-galactopyranosyl-D-glucopyranose**

see 4'-Galactosyllactose, OG08336 on page 107

**4-O-b-D-Galactopyranosyl-D-glucitol**

see Lactitol anhydrous, OL09821 on page 164

**4-O-(b-D-Galactopyranosyl)-D-glucitol monohydrate**

see Lactitol monohydrate, OL01305 on page 164

**4-O-b-D-Galactopyranosyl-D-gluconic acid**

see Lactobionic acid, OL03220 on page 164

**2-O-(a-D-Galactopyranosyl)-D-glucopyranose**[7286-57-9] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

Price On Application

OG158752

**3-O-(a-D-Galactopyranosyl)-D-glucopyranose**

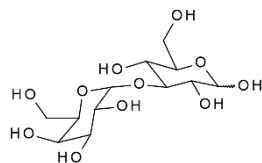
- Gal(a1-3)-Glc

[40592-72-1] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG10141

1mg

\$2200.00

**3-O-(b-D-Galactopyranosyl)-D-glucopyranose**[28447-38-3] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG10142

1mg

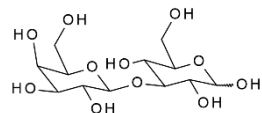
\$195.00

2mg

\$370.00

5mg

\$875.00

**4-O-b-D-Galactopyranosyl-D-glucopyranose**

see Lactose - anhydrous, OL04771 on page 169

**4-O-(a-D-Galactopyranosyl)-D-glucopyranose**

- Gal(a1-4)-Glc

[56907-30-3] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG10139

1mg

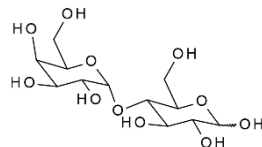
\$135.00

2mg

\$210.00

5mg

\$375.00

**4-O-(b-D-Galactopyranosyl)-b-D-glucopyranose**

see b-Lactose - min 70% b-anomer, OL15748 on page 169

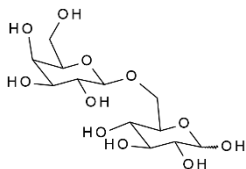
**6-O-(b-D-Galactopyranosyl)-D-glucopyranose**

• Allolactose

[28447-39-4] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG09259

1mg	\$78.80
2mg	\$114.50
5mg	\$210.00

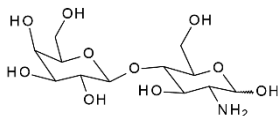
**6-O-(a-D-Galactopyranosyl)-D-glucopyranose anhydrous**see *D-Melibiose anhydrous*, OM02328 on page 198**4-O-b-D-Galactopyranosyl-a-D-glucopyranose monohydrate**see *a-Lactose monohydrate*, OL05009 on page 170**4-O-b-D-Galactopyranosyl-D-glucopyranose monohydrate**see *D-Lactose monohydrate*, OL02402 on page 170**6-O-(a-D-Galactopyranosyl)-D-glucopyranose monohydrate**see *D-Melibiose monohydrate*, OM06702 on page 198**4-O-b-D-Galactopyranosyl-2-O-a-D-glucopyranosyl-b-D-fructofuranoside**see *4-O-b-D-Galactosylsucrose*, OG44854 on page 108**4-O-(b-D-Galactopyranosyl)-D-glucosamine**

• Lactosamine

[13000-25-4] C<sub>12</sub>H<sub>23</sub>NO<sub>10</sub> 341.31

OG12059

10mg	\$100.00
25mg	\$170.00
50mg	\$250.00

**4-O-(b-D-Galactopyranosyl)-D-glucosamine HCl**

• Lactosamine HCl

[13000-25-4] C<sub>12</sub>H<sub>23</sub>NO<sub>10</sub>·HCl 377.77

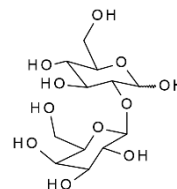
OG63076

10mg	\$75.00
25mg	\$145.00
50mg	\$225.00

**2-O-(b-D-Galactopyranosyl)-D-glucose**[28447-37-2] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG10144

1mg \$2200.00

**1-O-a-D-Galactopyranosyl-L-myo-inositol hydrate**see *Galactinol hydrate*, OG07040 on page 101**4'-O-(a-D-Galactopyranosyl)-D-lactose**

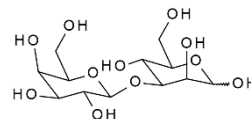
OG74811

Price On Application

**3-O-(b-D-Galactopyranosyl)-D-mannopyranose**C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG10159

Price On Application



## Galactopyran

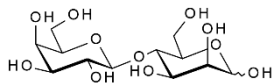
## 4-O-(b-D-Galactopyranosyl)-D-mannopyranose

• Epilactose

[20869-27-6][103302-12-1] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG04727

25mg	\$65.00
50mg	\$115.00
100mg	\$170.00



## 6-O-(a-D-Galactopyranosyl)-D-mannopyranose

OG153296

Price On Application



## 4-O-(b-D-Galactopyranosyl)-D-mannopyranose octaacetate

see 4-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-1,2,3,6-tetra-O-acetyl-D-mannopyranose, OT10386 on page 268

## 1-D-a-Galactopyranosyl-4-O-[1-(2-octadecylthioethyl)-(b-D-galactopyranoside)]

OG12060

1mg	\$168.00
2mg	\$315.00
5mg	\$577.50

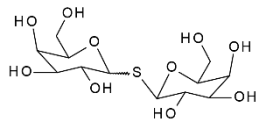


## (D-Galactopyranosyl)-b-D-thiogalactopyranoside

• Thiodigalactoside  
• TDG[51555-87-4] C<sub>12</sub>H<sub>22</sub>O<sub>10</sub>S 358.36

OG05033

100mg	\$55.00
250mg	\$95.00
500mg	\$160.00



Refs: Litjens R, Hoogerhout P, Filippov D, Codée J, et al, J. Carbohydr. Chem. 2005, Vol24, No7, p755-769

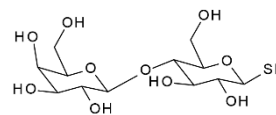
## 4-O-(b-D-Galactopyranosyl)-b-D-thioglucopyranose

• b-D-Thiolactose

C<sub>12</sub>H<sub>22</sub>O<sub>10</sub>S 358.36

OG10930

5mg	\$99.80
10mg	\$178.50
25mg	\$394.00

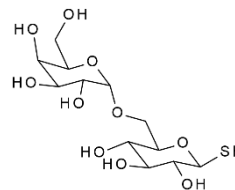


## 6-O-(a-D-Galactopyranosyl)-b-D-thioglucopyranose

C<sub>12</sub>H<sub>22</sub>O<sub>10</sub>S 358.36

OG10932

5mg	\$99.80
10mg	\$189.00
25mg	\$420.00

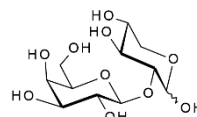


## 2-O-(b-D-Galactopyranosyl)-D-xylopyranose

[91463-78-4] C<sub>11</sub>H<sub>20</sub>O<sub>10</sub> 312.27

OG31311

Price On Application



## O-b-D-Galactopyranosyl-(1→3)-O-2-(acetylamino)-2-deoxy-b-D-glucopyranosyl-(1→4)-D-galactose

see Lacto-N-triose I, OL157976 on page 172

## Galactose b1-3 (N-acetyl-galactosamine) b1-4 lactose

see Galb1-3GalNAcb1-4Galb1-4Glc, OG44834 on page 111

## D-Galactose impurity B

see 6-O-(b-D-Galactopyranosyl)-D-galactopyranose, OG05008 on page 103

## 3-(O-b-D-galactosyl)-N-acetyl-a-D-galactosaminy1-1-O-serine

see 2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranosyl-1-O-L-serine, OA07379 on page 14

**3-O-b-D-Galactosyl-N-acetyl-a-D-galactosaminy-1-O-L-threonine**

see 2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranosyl-1-O-L-threonine, OA07377 on page 14

**3-Galactosyl-N-acetyl-D-lactosamine**

• Galb1-3Galb1-4GlcNAc

OG44904

Price On Application

**b1-4-Galactosyl-Galactose-BSA**

OG58615

1mg	\$893.41
2mg	\$1429.46
5mg	\$2287.15

**galactosyl-galactosyl-lactose**

see Oligogalactosyllactose, OO28868 on page 237

**b-D-Galactosyl-(1-4)-D-glucosylceramide**

see Lactosylceramide, OL16325 on page 171

**Galactosyl isomaltol**

• 2-Acetyl-3-furyl-b-D-galactopyranoside

[82756-28-3] C<sub>12</sub>H<sub>16</sub>O<sub>8</sub> 288.25

OG76130

Price On Application

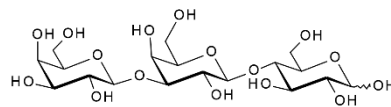
**3'-Galactosyllactose**

• 4-O-(3-O-b-D-Galactopyranosyl)-b-D-galactopyranosyl-D-glucopyranose

[32694-82-9] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OG15069

1mg	\$150.00
2mg	\$250.00
5mg	\$450.00

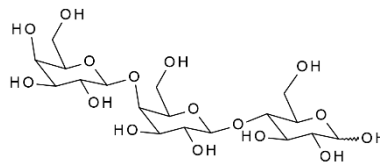
**4'-Galactosyllactose**

• 4-O-(4-O-b-D-Galactopyranosyl)-b-D-galactopyranosyl-D-glucopyranose

[6587-31-1] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OG08336

1mg	\$95.00
2mg	\$160.00
5mg	\$310.00

**6'-Galactosyllactose**

C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.43

OG15070

1mg	\$95.00
2mg	\$160.00
5mg	\$310.00

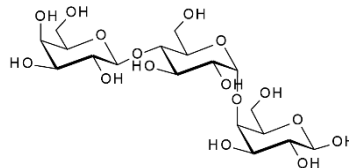
**4-O-b-D-Galactosyl maltose**

• Galb1-4Glc1-4Glc

[143444-32-0] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OG34822

Price On Application



## Galactosylma

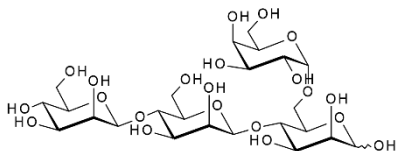
## a-D-Galactosyl-mannotriose

• Manb1-4Manb1-4(Gala1-6)Man

[82220-78-8] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

OG32474

5mg	\$105.00
10mg	\$180.00
20mg	\$270.00



## 2-O-b-D-Galactosylsucrose

[1004760-17-1]

OG45643

5mg	\$500.00
10mg	\$850.00
25mg	\$1500.00



## 3-O-b-D-Galactosylsucrose

[686717-73-7]

OG45642

5mg	\$450.00
10mg	\$750.00
25mg	\$1200.00



## 4-O-b-D-Galactosylsucrose

• Lactosucrose

• 4-O-b-D-Galactopyranosyl-2-O-a-D-glucopyranosyl-b-D-fructofuranoside

[87419-56-5] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OG44854

5mg	\$375.00
10mg	\$600.00
25mg	\$1000.00



## 6-O-b-D-Galactosylsucrose

[41545-69-1]

OG45644

5mg	\$500.00
10mg	\$850.00
25mg	\$1500.00



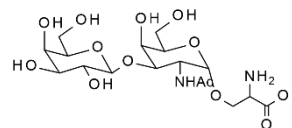
## Galactosyl-Tn-antigen

- Gal-b-1,3-GalNAc-a-1-O-DL-serine
- Thomsen-Freidenreich antigen

C<sub>17</sub>H<sub>30</sub>N<sub>2</sub>O<sub>13</sub> 470.43

OG07525

1mg	\$475.00
2mg	\$850.00
5mg	\$1500.00



## 1,4-b-Galactotetraose

- O-b-D-Galactopyranosyl-(1→4)-O-b-D-galactopyranosyl-(1→4)-O-b-D-galactopyranosyl-(1→4)-D-galactose

[107595-47-1] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

OG156981

Price On Application



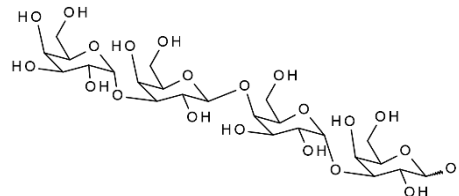
## 3a,4b,3a-Galactotetraose

- Gal-a1,3Gal-b-1,4Gal-a-1,3Gal
- a1,3-b1,4-a1,3 Galactotetraose

[56038-38-1] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

OG05062

1mg	\$75.00
2mg	\$115.00
5mg	\$195.00





**a1,3-b1,4-a1,3 Galactotetraose**see *3a,4b,3a-Galactotetraose*, OG05062 on page 108**1,4-b-Galactotriose**see *b-D-Galactopyranosyl-(1-4)-b-D-galactopyranosyl-(1-4)-D-galactose*, OG45631 on page 104**1,6-b-Galactotriose**

• O-b-D-Galactopyranosyl-(1→6)-O-b-D-galactopyranosyl-(1→6)-D-galactose

[28245-12-7] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OG61742

Price On Application

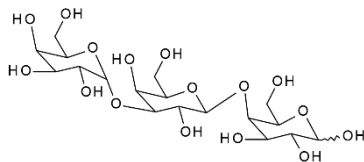
**3a,4b-Galactotriose**

- a-D-Galactopyranosyl-(1-3)-b-D-galactopyranosyl-(1-4)-D-galactose
- Gal-a-1,3-Gal-b-1,4-Gal
- a1,3- b1,4-Galactotriose

[56038-36-9] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OG00715

1mg	\$84.00
2mg	\$136.50
5mg	\$210.00



Refs: Khandurina J, Guttman A, Chromatographia, 2005, 62,13, p37

**a1,3- b1,4-Galactotriose**see *3a,4b-Galactotriose*, OG00715 on page 109**3a,4b-Galactotriose-BSA**

• α1-3,β1-4 Galactotriose-BSA (3 atom spacer)

OG156975

Price On Application

**α1-3,β1-4 Galactotriose-BSA (3 atom spacer)**see *3a,4b-Galactotriose-BSA*, OG156975 on page 109**Galacturonan DP10-DP15 sodium salt**

OG59704

10mg	\$225.00
25mg	\$375.00
50mg	\$550.00

**Galacturonan DP3/DP4 sodium salt**

OG32428

10mg	\$262.50
25mg	\$446.50
50mg	\$840.00

**Galacturonan DP7/DP8 sodium salt**

OG59703

10mg	\$200.00
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**Galacturonan DP3 sodium salt**

OG46560

1mg	\$95.00
2mg	\$150.00
5mg	\$250.00

**Galacturonan DP4 sodium salt**

OG46561

1mg	\$95.00
2mg	\$150.00
5mg	\$250.00



**Galacturonan****Galacturonan oligosaccharides DP range : 25-50 sodium salt**

OG59705	25mg	\$65.00
	50mg	\$100.00
	100mg	\$170.00



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**Gala-4(fuca-3)GlcNacβ-3Gal**see *Lewis X tetrasaccharide, OL09569* on page 176**Gala1,4Gal**see *4-O-(α-D-Galactopyranosyl)-D-galactopyranose, OG06113* on page 103**Gala1-3Galβ1-4(6-deoxyGlcNAc)-HSA**

OG58636	500ug	\$625.00
	1mg	\$1150.00
	2mg	\$1790.00

**Gala1-3Galβ1-4Glc**

- a-Gal epitope type I
- Isoglobotriaose
- Linear B-6 trisaccharide

[41744-59-6] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OG44766	1mg	\$95.00
	2mg	\$150.00
	5mg	\$275.00

**Gala1-3Galβ1-4Glcβ-CH2CH2CH2CH2CONH**

- a-Gal epitope-CPG (type I)

OG03997

Price On Application

**Gala1-4Galβ1-4Glcβ-OCH2CH2NH-biotin**see *Globotriose-sp-biotin, OG46868* on page 126**Gala1-3Galβ1-4Glc-HSA**

OG58637	500ug	\$425.00
	1mg	\$730.00
	2mg	\$1240.00

**Gala1-3Galβ1-4GlcNAc**see *Blood Group B type II linear trisaccharide, OB44765* on page 50**Gala1-3Galβ1-4GlcNAca1-HDPE**

OG58412	1mg	\$128.36
	2mg	\$205.38
	5mg	\$328.60

**Gala1-3Galβ1-4GlcNAcb-CH2CH2CH2CH2CH2**

- a-Gal epitope-CPG (type II)

OG03958

Price On Application

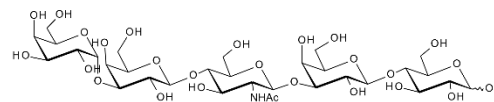
**Gala1-3Galβ1-4GlcNAcb1-3Galβ1-4Glc**

- a-Gal epitope type III

[177331-58-7] C<sub>32</sub>H<sub>55</sub>NO<sub>26</sub> 869.77

OG04389

Price On Application



## Gala1-3Galb1-3GlcNAc-HSA

OG58635	250ug	\$300.00
	500ug	\$590.00
	1mg	\$1150.00



## Gala1-3Galb1-4GlcNAc b1-NHCO(CH2)NHCO(CH2)10NH2

see *Blood Group B type II linear trisaccharide amine linker, OB31180 on page 50*

## Gala1-3Galb1-4GlcNAc-O-L-serine

OG157289

Price On Application



## Gala1-2Gal-BSA

OG58611

1mg	\$893.41
2mg	\$1429.46
5mg	\$2287.15



## Gala1-3Galb-sp-biotin

see *a1-3-Galactobiose-biotin, OG10440 on page 101*

## Gala1-2Gal-HAS

OG58400

1mg	\$129.80
2mg	\$207.68
5mg	\$332.30



## Gala1-3Gal-HSA

OG58632

250ug	\$225.00
500ug	\$375.00
1mg	\$650.00



## Gala1-4GlcNAc

see *Epi-N-Acetyl-lactosamine, OE02427 on page 90*

## Galb-4(Fuca-3)Glc

see *3-Fucosyllactose, OF05673 on page 99*

## Galb1-3Galb1-4GlcNAc

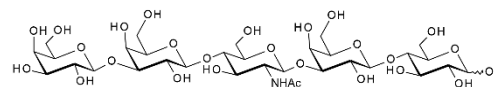
see *3-Galactosyl-N-acetyl-D-lactosamine, OG44904 on page 107*

## Galb1-3Galb1-4GlcNAcb1-3Galb1-4Glc

[443660-52-4] C<sub>32</sub>H<sub>55</sub>NO<sub>26</sub> 869.77

OG11698

Price On Application



## Galb1-4GalNAc

see *2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-D-galactopyranose, OA09634 on page 13*

## Galb1-3GalNAcb1-4Galb1-4Glc

• Galactose b1-3 (N-acetyl-galactosamine) b1-4 lactose

OG44834

5mg	\$475.00
10mg	\$850.00
25mg	\$1500.00



## Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc

see *GM1a-Oligosaccharide, OO46231 on page 138*

**GalbGalNAcbN****Galb1-3GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc**see *GT1c-Oligosaccharide*, *OO46223* on page 66**Galb1-3GalNAcb1-OMe**see *Methyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-galactopyranoside*, *OM05013* on page 210**Galb1-4Glc1-4Glc**see *4-O-b-D-Galactosyl maltose*, *OG34822* on page 107**Galb-(1-4)-GlcNAc(6S)**see *2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-6-sulfo-D-glucopyranose sodium salt*, *OA09703* on page 15**Galb1-4Xylb1-O-benzyl**see *Benzyl 4-O-b-D-galactopyranosyl-b-D-xylopyranoside*, *OB157084* on page 43**a-Gal epitope-CPG (type I)**see *Gala1-3Galb1-4Glc-b-CH2CH2CH2CH2CONH*, *OG03997* on page 110**a-Gal epitope-CPG (type II)**see *Gala1-3Galb1-4GlcNAcb-CH2CH2CH2CH2*, *OG03958* on page 110**a-Gal epitope - HSA**see *Blood Group B type II linear trisaccharide-HSA*, *OB58634* on page 50**a-Gal epitope type I**see *Gala1-3Galb1-4Glc*, *OG44766* on page 110**a-Gal epitope type II**see *Blood Group B type II linear trisaccharide*, *OB44765* on page 50**a-Gal epitope type III**see *Gala1-3Galb1-4GlcNAcb1-3Galb1-4Glc*, *OG04389* on page 110**Gal-a-1,3(Fuc-a-1,2)Gal**see *Blood Group B trisaccharide*, *OB01663* on page 47**Gal-a-1,3(Fuc-a-1,2)Gal-APE-[Biotin]-BSA**see *Blood Group B trisaccharide-APE,Biotin-BSA*, *OB01689* on page 48**Gal-a-1,3(Fuc-a-1,2)Galb-1,3GlcNAc-b-1,3Gal**see *Blood Group B pentasaccharide type I*, *OB158904* on page 46**Gal-a-1,3(Fuc-a-1,2)Galb-1,4GlcNAc-b-1,3Gal**see *Blood Group B pentasaccharide type II*, *OB09576* on page 47**Gal-a-1,3(Fuc-a-1,2)Gal-b1-O-(CH2)8CONH(CH2)2NH2**see *Blood Group B trisaccharide, N-aminoethyl nonanamide*, *OB07521* on page 48**Gal-a-1,3(Fuc-a-1,2)Gal-b-1-O(CH2)3NHCO(CH2)5NH-biotin**see *Blood Group B trisaccharide, spacer-biotin conjugate*, *OB31038* on page 49**Gal-a-1,3(Fuc-a-1,2)Gal-b-1,3GlcNAc-b-1,3Gal-b-1,4Glc**see *Blood group B hexasaccharide type I*, *OB159055* on page 45**Gal-a-1,3(Fuc-a-1,2)Gal-b-1,4GlcNAc-b-1,3Gal-b-1,4Glc**see *Blood group B hexasaccharide type II*, *OB09577* on page 45**Gal-b-1,3(Fuc-a-1,4)GlcNAc**see *Lewis A trisaccharide*, *OL04541* on page 175**Gal-b-1,4(Fuc-a1,3)GlcNAc**see *Lewis X trisaccharide*, *OL06490* on page 177**Gal-b-1-3(Fuc-a-1-4)GlcNAc-b-1-3Gal**see *Lewis A tetrasaccharide*, *OL09843* on page 174**Gal-b-1-4(Fuc-a-1-3)GlcNAc-b-1-3Gal-b-1-4(Fuc-a-1-3)Glc**see *Lacto-N-neodifucohexaose*, *OL09844* on page 168**Gal-b-1,4-(Fuc-a-1,3)-GlcNAc-b-1,3-D-Gal-b-1,4-Glc**see *Lacto-N-fucopentaose III*, *OL04212* on page 167**Gal-b-1,4(Fuc-a-1,3)GlcNAc-b-OMe**see *Lewis X trisaccharide methyl glucoside*, *OL04770* on page 177**Gal-a-1,2-Gal**see *2-O-(a-D-Galactopyranosyl)-D-galactopyranose*, *OG04739* on page 102**Gal-a-1,3-Gal**see *3-O-(a-D-Galactopyranosyl)-D-galactopyranose*, *OG06491* on page 102

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**Gal-a-1,4-Gal-CETE-BSA Conjugate**

see 4-O-(a-D-Galactopyranosyl)-b-D-galactopyranosyl-CETE-BSA Conjugate, OG04420 on page 103

**b-D-Gal-(1->4)-b-D-Gal-(1->4)-b-D-Gal**

see b-D-Galactopyranosyl-(1-4)-b-D-galactopyranosyl-(1-4)-D-galactose, OG45631 on page 104

**Gal-a-1,3-Gal-b-1,4-Gal**

see 3a,4b-Galactotriose, OG00715 on page 109

**Gal-a-1,4-Gal-a-1,4-GalA**

see Trigalacturonic acid, OT02431 on page 279

**Gal-a1,3Gal-b-1,4Gal-a-1,3Gal**

see 3a,4b,3a-Galactotetraose, OG05062 on page 108

**Gal-a-1,4-Gal-b-1,4-Glc**

see Globotriose, OG01626 on page 126

**Gal-a-1,3-Gal-b-1,4Glc-b-CH2CH2CH2CH2CH2NH2**

see Linear B-6 trisaccharide 1-O-n-pentylamine, OL11431 on page 179

**Gal-a-1,3-Gal-b-1,4-GlcNAc**

see Linear B-2 trisaccharide, OL06495 on page 179

**Gal-a1,4-Gal-b1,4-GlcNAc**

see P1-Antigen, OA09578 on page 33

**Gal-a-1-3-Gal-b-1-O-Me**

see Methyl 3-O-(a-D-galactopyranosyl)-b-D-galactopyranoside, OM10441 on page 214

**Gal-a-1,3-GalNAc**

see 2-Acetamido-2-deoxy-3-O-(a-D-galactopyranosyl)-D-galactopyranose, OA06694 on page 13

**Gal-b-1,6-GalNAc**

see 2-Acetamido-2-deoxy-6-O-(b-D-galactopyranosyl)-D-galactopyranose, OA04443 on page 13

**Gal-b1,3-GalNAc**

see 2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-D-galactopyranose, OA01686 on page 13

**Gal-b-1,3-GalNAc-a-O-Bn**

see Benzyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside, OB05157 on page 39

**Gal-b-1-3-GalNAc-b-1-4-Gal-b-1-4-Glc-b-ethylazide**

OG136917

Price On Application

**Gal(b1-3)GalNAc(b1-4)[Neu5Ac(a2-3)]Gal(b1-4)Glc(b1-1)Cers**

see GM1-Ganglioside, OG03918 on page 137

**Gal-b-1,3-GalNAc-a-OMe**

see Methyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside, OM04746 on page 210

**Gal-b-1,3-GalNAc-a-1-O-DL-serine**

see Galactosyl-Tn-antigen, OG07525 on page 108

**Gal-a-1,4-Gal-OMe**

see Methyl 4-O-(a-D-galactopyranosyl)-a-D-galactopyranoside, OM06087 on page 215

**b-D-Gal-(1,4)-D-Glc**

see D-Lactose monohydrate, OL02402 on page 170

**Gal(a1-3)-Glc**

see 3-O-(a-D-Galactopyranosyl)-D-glucopyranose, OG10141 on page 104

**Gal(a1-4)-Glc**

see 4-O-(a-D-Galactopyranosyl)-D-glucopyranose, OG10139 on page 104

**Gal-b-1,3-GlcNAc**

see Lacto-N-biose, OL01707 on page 164

**Gal-b-1,4-GlcNAc**

see 2-Acetamido-2-deoxy-4-O-(b-D-galactofuranosyl)-D-glucopyranose, OA04446 on page 13

**GalGlcNAcGal****Gal-b-1,4-GlcNAc-b-1,6-Gal**

see 6-O-[2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-b-D-glucopyranosyl]-D-galactopyranose, OA06816 on page 15

**Gal-b-1-4-GlcNAc-b-1-3-Gal-b-1-4(Fuc-a-1-3)Glc**

see *Lacto-N-neofucopentaose*, OL09903 on page 168

**Gal-b-1,3-GlcNAc-b-1,3-Gal-b-1,4-Glc**

see *Lacto-N-tetraose*, OL05683 on page 171

**Gal-b-1,4-GlcNAc-b-1,3-Gal-b-1,4-Glc**

see *Lacto-N-neotetraose*, OL05765 on page 169

**Gal-b-1,3GlcNAc-b-1,3-Gal-b-1,4-GlcNAc-b-1,3-Gal-b-1,4-Glc**

see *p-Lacto-N-hexaose*, OL06839 on page 168

**Gal-b-1-4-GlcNAc-b-1-3-Gal-b-1-4-GlcNAc-b-1-3-Gal-b-1-4-GlcNAc-b-1-3-Gal-b-1-4-Glc**

see *Lacto-N-neooctaose*, OL09902 on page 168

**Gal-b-1,3-(GlcNAc-b-1,6-)GalNAc**

see 2-Acetamido-2-deoxy-6-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-3-O-(b-D-galactopyranosyl)-D-glucopyranose, OA35391 on page 11

**b-D-Gal-(1,4)-b-D-Glc-1-OPr**

see *N-Propyl b-lactoside*, OP04979 on page 244

**Galili antigen triaose**

see *Linear B-2 trisaccharide*, OL06495 on page 179

**Gal(b1-4)ManNAc**

see 2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-D-mannopyranose, OA06499 on page 15

**GalNAca-3(Fuca-2)Galb-4GlcNAcb-3Gal**

see *Blood group A pentasaccharide type II*, OA11693 on page 46

**GalNAca1-3(Fuca1-2)Galb1-3GlcNAcb1-3Gal**

see *Blood Group A pentasaccharide type I*, OB158901 on page 46

**GalNAca-3(fuca-2)Galb-4GlcNAcb-3Galb-4Glc**

see *Blood group A hexasaccharide type II*, OA11696 on page 45

**GalNAcb1-3-Gal**

see 3-O-(2-Acetamido-2-deoxy-b-D-galactopyranosyl)-D-galactopyranose, OA08084 on page 14

**GalNAcb(1-3)Gala(1-3)Galb(1-4)Glc-b-pNP**

C<sub>32</sub>H<sub>48</sub>N<sub>20</sub>O<sub>23</sub> 1080.84

OG44931

Price On Application

**GalNAcb(1-4)GlcNAcb(1-3)GalNAcb(1-4)GlcNAc-b-ethylazide**

see *LacDiNAc dimer ethylazide*, OL44933 on page 163

**GalNAcb1-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4Glc**

see *GT2-Oligosaccharide*, OO46234 on page 239

**GalNAc-a-1,3-(Fuc-a-1,2)Gal**

see *Blood Group A trisaccharide*, OB04438 on page 47

**GalNAc-a-1,3-(Fuc-a-1,2)Gal-APE-[Biotin]-BSA**

see *Blood Group A trisaccharide-APE,Biotin-BSA*, OB01687 on page 48

**GalNAc-a-1,3-(Fuc-a-1,2)Gal-BSA**

see *Blood Group A trisaccharide-BSA*, OB58391 on page 48

**GalNAc-a-1,3-(Fuc-a-1,2)Gal-b1-O-(CH2)8CONH(CH2)2NH2**

see *Blood Group A trisaccharide, N-aminoethyl nonanamide*, OB07522 on page 48

**GalNAc(a-1,2-Fuc)-a-1,3-Gal(a-1,4-Fuc)-b-1,3-GlcNAc-b-1,3-Gal-b-1,4-Glc**

see *Lewis A heptasaccharide*, OL07523 on page 174

**GalNAc-b-1,3-Gal-a-1,4-Gal-b-1,4-Glc**

see *Globo-N-tetraose*, OG06574 on page 125

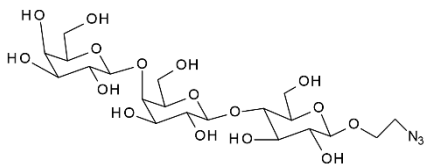
**GalNAc-b-1,3-Gal-b-1,4-Glc**

see 4-O-[3-O-(2-Acetamido-2-deoxy-b-D-galactopyranosyl)-b-D-galactopyranosyl]-D-glucose, OA10781 on page 14

**GalNAc-b-1-4-Gal-b-1-4-Glc-b-ethylazide**

OG136916

Price On Application

**GalNAc-a-1,3-GalNAc**

see 2-Acetamido-2-deoxy-3-O-(2-acetamido-2-deoxy-a-D-galactopyranosyl)-D-galactopyranose, OA09257 on page 11

**GalNAc-a-1,3-GalNAc-b-1,3-Gal**

see Forssman antigen triaose, OF45630 on page 94

**GalNAc-a-1,3-GalNAc-b-1,3-Gal-a-1,4-Gal-b-1,4Glc**

see Forssman antigen pentaose, OF45629 on page 94

**GalNAc-b-1,3-Gal-a-OMe**

see Methyl 3-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-a-D-galactopyranoside, OM04745 on page 211

**GalNAc-b-1-4-GlcNAc**

see 2-Acetamido-2-deoxy-4-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-D-glucopyranose, OA44637 on page 12

**Gal b1-3(NeuNAc2-6)GalNAc a1-O-Serine**

see D-Galactopyranosyl-(b1-3)-[N-acetylneuraminyl-(a2-6)]-D-N-acetylgalactosaminy/serine, OG15272 on page 102

**b-D-Gal-(1→3)-(a-L-Fuc-[1→4])-b-D-GlcNAc-(1→3)-b-D-Gal-(1→4)-D-Glc**

see Lacto-N-fucopentaose II, OL03876 on page 166

**a-D-Gal-(1→4)-b-D-Gal-(1→4)-b-D-Glc-1→O-ceramide**

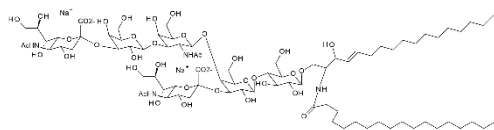
see Globotriaosylceramide, OG45939 on page 125

**a-D-Gal-(1→4)-b-D-Gal-(1→4)-b-D-Glc-1→O-sphingosine**

see Globotriaosylsphingosine, OG44865 on page 125

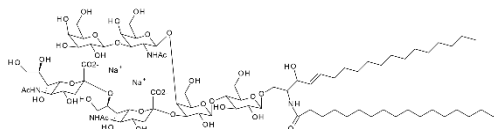
**GD1a-Ganglioside**[12707-58-3] C<sub>84</sub>H<sub>148</sub>N<sub>4</sub>O<sub>39</sub>·xNa 1838.08 (free acid basis)

OG03917

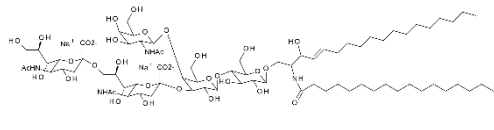
1mg  
2mg  
5mg\$200.00  
\$320.00  
\$640.00**GD1b-Ganglioside**

[19553-76-5]

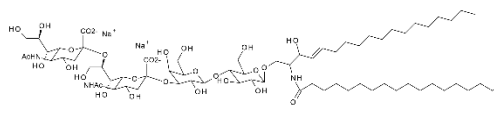
OG03920

1mg  
2mg  
5mg\$195.00  
\$370.00  
\$850.00**GD2-Ganglioside**[65988-71-8] C<sub>78</sub>H<sub>138</sub>N<sub>4</sub>O<sub>34</sub>·xNa 1675.94 (free acid basis)

OG06830

100ug  
200ug  
500ug\$590.00  
\$950.00  
\$1600.00**GD3-Ganglioside**[62010-37-1] C<sub>70</sub>H<sub>125</sub>N<sub>3</sub>O<sub>29</sub>·xNa 1472.74 (free acid basis)

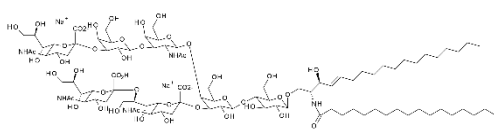
OG03922

1mg  
2mg  
5mg\$250.00  
\$480.00  
\$1175.00**GT1b-Ganglioside**

• Cer-Glc-Gal(NeuAc-NeuAc)-GalNAc-Gal-NeuAc

[59247-13-1] C<sub>95</sub>H<sub>165</sub>N<sub>5</sub>O<sub>48</sub>·xNa 2145.33 (free acid basis)

OG03923

1mg  
2mg  
5mg\$105.00  
\$190.00  
\$400.00

**Gangliosideb****GD3-Ganglioside, biotin labelled**

OG16140	1mg	\$1260.00
	2mg	\$2100.00
	5mg	\$4200.00

**Gangliosyl ceramide**see *GA2-Ganglioside, OG16402* on page 100**Garamine acetate salt**

• 2-Deoxy-6-O-[3-deoxy-4-C-methyl-3-(methylamino)-b-L-arabinopyranosyl]-D-streptamine

[49751-51-1] C<sub>13</sub>H<sub>27</sub>N<sub>3</sub>O<sub>6</sub>·x(CH<sub>3</sub>CO<sub>2</sub>H) 321.37 (free acid basis)

OG46090	1mg	\$250.00
	2mg	\$430.00
	5mg	\$875.00



G

**Gangliosides**

• GM1, GD1a, GD1b, GT1b gangliosides, mixed ammonium salts

OG63365

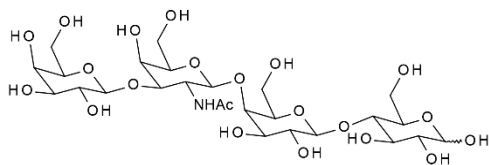
Price On Application

**Gangliotetraose**

• Asialo-GM1-tetrasaccharide

[75645-24-8] C<sub>26</sub>H<sub>45</sub>NO<sub>21</sub> 707.64

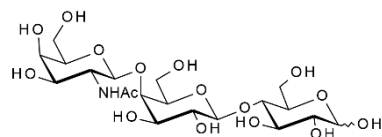
OG03927	500ug	\$60.00
	1mg	\$95.00
	2mg	\$170.00



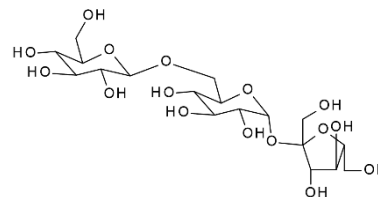
Refs: Paulsen H, et.al, Carbohydr. Res, 1985, 137, p39

**Ganglio-N-tetraosylceramide**see *GA1-Ganglioside, OG16191* on page 100**Gangliotriose**• Asialo-GM2-trisaccharide  
• N-Acetylgalactosamine b1-4 Lactose[1355005-58-1] C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub> 545.49

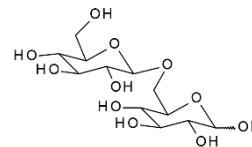
OG29094	1mg	\$125.00
	2mg	\$190.00
	5mg	\$375.00

**Gb3**see *Globotriaosylceramide, OG45939* on page 125**Gentianose**• b-D-Glc-(1->6)-a-D-Glc-(1<->2)-b-D-Fru  
• b-D-fructofuranosyl 6-O-b-D-glucopyranosyl-a-D-glucopyranoside[25954-44-3] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.45

OG08097	5mg	\$60.00
	10mg	\$100.00
	25mg	\$200.00

**b-D-Gentiobiose**• 6-O-(b-D-Glucopyranosyl)-D-glucopyranose  
• Amygdalose[554-91-6] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG05175	200mg	\$50.00
	500mg	\$95.00
	1g	\$170.00





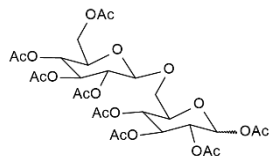
**b-Gentiobiose octaacetate**

• 1,2,3,4-Tetra-O-acetyl-6-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranose

[4613-78-9] C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.59

OG05092

1g	\$150.00
2g	\$250.00
5g	\$450.00



Refs: Wolfrom ML, Igarashi K, Koizumi K, J. Org. Chem. 1965, p3841

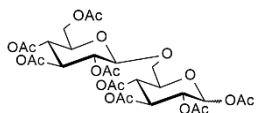
**Gentiobiose octaacetate**

• 1,2,3,4-Tetra-O-acetyl-6-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-D-glucopyranose

C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.59

OG28867

1g	\$60.00
2g	\$100.00
5g	\$225.00

**Gentiobiulose**

• 6-O-(b-D-Glucopyranosyl)-D-fructose

[132436-90-9] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG32576

Price On Application

**b-D-Gentiotriose**[32590-17-3] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OG76553

250mg \$4500.00

**G1F Glycan, 2-AB labelled**

OG58592

Price On Application

**A2G1 N-Glycan**

• Asialo-, bi-antennary N-linked glycan

1625

OA15890

10ug	\$341.30
20ug	\$483.00

**A2G2 N-Glycan**

see NA2 N-Glycan, ON10165 on page 226

**A2G2S1 N-Glycan**

see A1 N-Glycan, OA15860 on page 132

**A2G2S2 N-glycan**

see A2 N-Glycan, OA15862 on page 132

**A3G3 N-Glycan**

see NA3 N-Glycan, ON10171 on page 226

**A3G3S3 Glycan**

see A3 N-Glycan, OA15864 on page 133

**A4G4 N-Glycan**

see NA4 N-Glycan, ON10174 on page 226

**A2G1 Glycan, 2-AB labelled**

OA58589

Price On Application



**Ginsenoside****Ginsenoside A2**see *Ginsenoside Rg1*, OG09289 on page 120**Ginsenoside C**see *Ginsenoside Rb2*, OG09287 on page 118**20-(S)-Ginsenoside F2**[62025-49-4] C<sub>42</sub>H<sub>72</sub>O<sub>13</sub> 785.01

OG13740

5mg	\$70.00
10mg	\$110.00
25mg	\$195.00

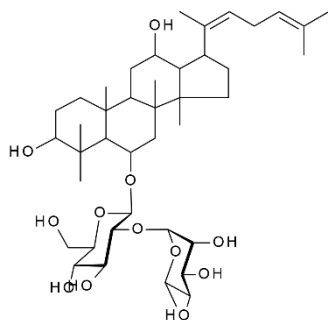
**20(Z)-Ginsenoside F4**

• Ginsenoside Rg4

[126223-28-7][181225-33-2] C<sub>42</sub>H<sub>70</sub>O<sub>12</sub> 767

OG31932

1mg	\$150.00
2mg	\$250.00
5mg	\$475.00

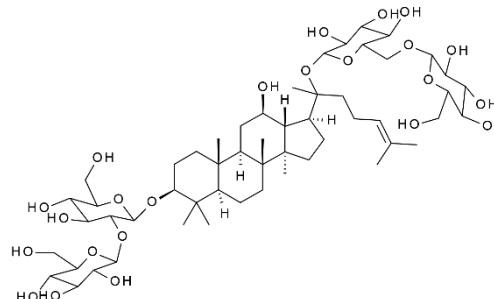
**(20E)-Ginsenoside F4**see *20(s)-Ginsenoside Rh2*, OG09293 on page 251**Ginsenoside Rb1**

- (3b,12b)-20-[(6-O-b-D-Glucopyranosyl-b-D-glucopyranosyl)oxy]-12-hydroxydammar-24-en-3-yl 2-O-(b-D-glucopyranosyl)-b-D-glucopyranoside
- Arasaponin E1
- Gypenoside III

[41753-43-9] C<sub>54</sub>H<sub>92</sub>O<sub>23</sub> 1109.32

OG09288

50mg	\$68.50
100mg	\$100.00
250mg	\$175.00



Refs: Shibata S, et al, Chem. Pharm. Bull, 1966, 14, p1157

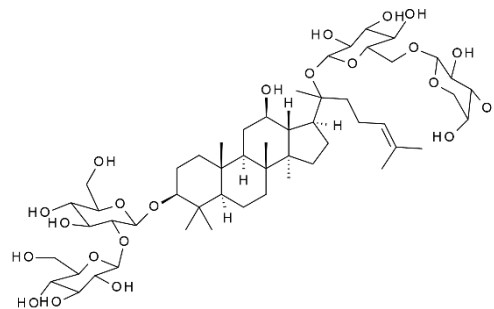
**Ginsenoside Rb2**

- (3b,12b)-20-[(6-O-a-L-Arabinopyranosyl-b-D-glucopyranosyl)oxy]-12-hydroxydammar-24-en-3-yl 2-O-(b-D-glucopyranosyl)-b-D-glucopyranoside
- Ginsenoside C

[11021-13-9] C<sub>53</sub>H<sub>90</sub>O<sub>22</sub> 1079.3

OG09287

10mg	\$89.30
25mg	\$173.50
50mg	\$289.00



Refs: Shibata S, et al, Chem. Pharm. Bull, 1966, 14, p1157

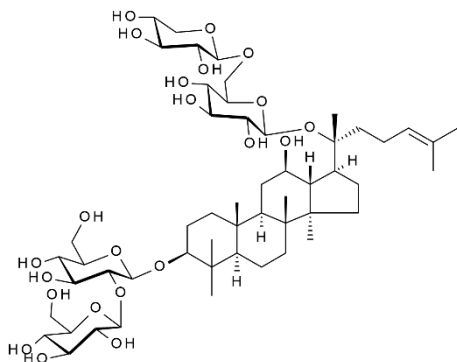
**Ginsenoside Rb3**

- (3b,12b)-3-[(2-O-b-D-Glucopyranosyl-b-D-glucopyranosyl)oxy]-12-hydroxydammar-24-en-3-yl 6-O-(b-D-glucopyranosyl)-b-D-glucopyranoside
- Gypenoside IV

[68406-26-8] C<sub>53</sub>H<sub>90</sub>O<sub>22</sub> 1079.27

OG09286

5mg	\$68.30
10mg	\$99.80
25mg	\$157.50



Refs: Chem. Pharm. Bull, 1978, 26, p1694

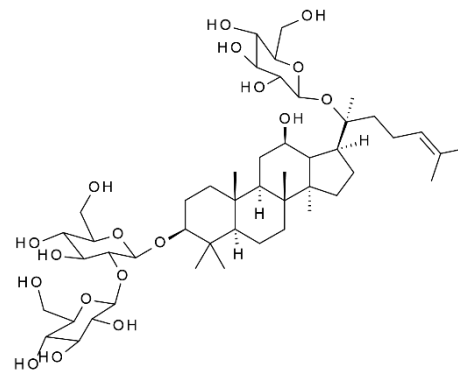
**Ginsenoside Rd**

- (3b,12b)-20-(b-D-Glucopyranosyl)oxy]-12-hydroxydammar-24-en-3-yl 2-O-(b-D-glucopyranosyl)-b-D-glucopyranoside

[52705-93-8] C<sub>48</sub>H<sub>82</sub>O<sub>18</sub> 947.18

OG09282

5mg	\$47.30
10mg	\$78.80
25mg	\$136.50



Refs: Chem. Pharm. Bull, 1974, 22, p421

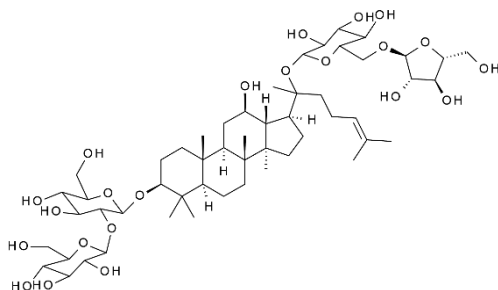
**Ginsenoside Rc**

- (3b,12b)-20-[(6-O-a-L-Arabinofuranosyl-b-D-glucopyranosyl)oxy]-12-hydroxydammar-24-en-3-yl 2-O-(b-D-glucopyranosyl)-b-D-glucopyranoside
- Panaxoside Rc

[11021-14-0] C<sub>53</sub>H<sub>90</sub>O<sub>22</sub> 1079.3

OG09295

5mg	\$78.80
10mg	\$136.50
25mg	\$236.50



Refs: Shibata S, et al, Chem. Pharm. Bull, 1966, 14, p595

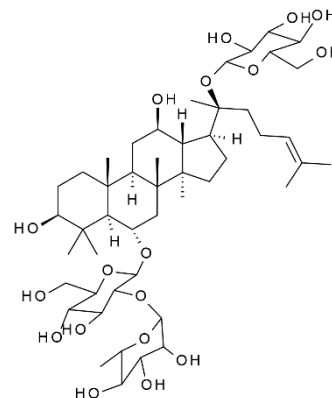
**Ginsenoside Re**

- (3b,6a,12b)-20-(b-D-Glucopyranosyloxy)-3,12-dihydroxydammar-24-en-6-yl 2-O-(6-deoxy-a-L-mannopyranosyl)-b-D-glucopyranoside

[52286-59-6] C<sub>48</sub>H<sub>82</sub>O<sub>18</sub> 947.18

OG09285

100mg	\$75.00
250mg	\$125.00
500mg	\$195.00



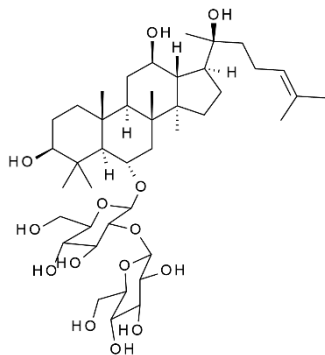
Refs: Chem. Pharm. Bull, 1974,22, p2407

**GinsenosideR****Ginsenoside Rf**

• (3b,6a,12b)-3,12,20-Trihydroxydammar-24-en-6-yl-2-O-(b-D-glucopyranosyl)-b-D-glucopyranoside

[52286-58-5] C<sub>42</sub>H<sub>72</sub>O<sub>14</sub> 801.03

OG09284	5mg	\$99.80
	10mg	\$173.30
	25mg	\$341.50



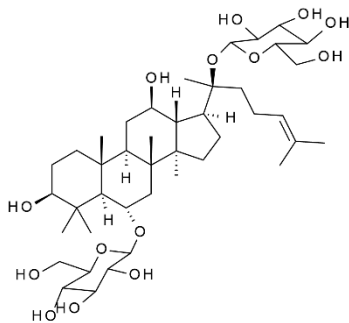
Refs: Yamanouchi Seiyaku Kenkyu Hokoku, 1973, 3, p30

**Ginsenoside Rg1**

• (3b,6a,12b)-3,12-Dihydroxydammar-24-ene-6,20-diyl bis-b-D-glucopyranoside  
• Panaxoside A  
• Ginsenoside A2

[22427-39-0] C<sub>42</sub>H<sub>72</sub>O<sub>14</sub> 801.03

OG09289	10mg	\$35.00
	25mg	\$52.50
	50mg	\$89.50



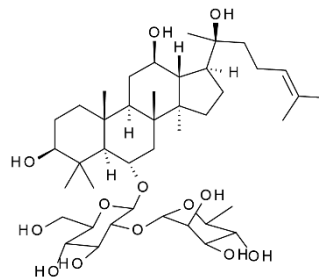
Refs: Tetrahedron Lett, 1964, 47-48, p3591

**Ginsenoside Rg2**

• (3b,6a,12b)-3,12,20-Trihydroxydammar-24-en-6-yl 2-O-(6-deoxy-a-L-mannopyranosyl)-b-D-glucopyranoside

[52286-74-5] C<sub>42</sub>H<sub>72</sub>O<sub>13</sub> 785.01

OG09290	10mg	\$63.00
	25mg	\$100.00
	50mg	\$157.50



Refs: Chem. Pharm. Bull, 1974, 22, p2407

**Ginsenoside Rg4**

see 20(Z)-Ginsenoside F4, OG31932 on page 118

**Ginsenoside Rg5**

[74964-14-0][186763-78-0] C<sub>42</sub>H<sub>70</sub>O<sub>12</sub> 767

OG31925	1mg	\$95.00
	2mg	\$175.00
	5mg	\$325.00

**Ginsenoside Rg6**

[147419-93-0] C<sub>42</sub>H<sub>70</sub>O<sub>12</sub> 767

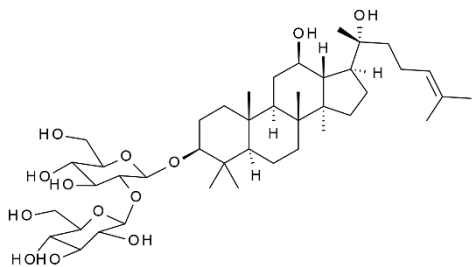
OG31926	1mg	\$95.00
	2mg	\$170.00
	5mg	\$310.00



**(20R)-Ginsenoside Rg3**[38243-03-7] C<sub>42</sub>H<sub>72</sub>O<sub>13</sub> 785.01

OG15964

50mg	\$95.00
100mg	\$170.00
250mg	\$300.00

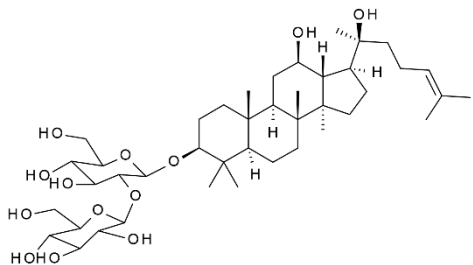
**(20S)-Ginsenoside Rg3**

• 3b-[2-O-b-D-Glucopyranosyl-b-D-glucopyranosyl]oxy]-dammar-24-ene-12b, 20 diol

[14197-60-5] C<sub>42</sub>H<sub>72</sub>O<sub>13</sub> 785.01

OG09291

5mg	\$57.80
10mg	\$65.00
25mg	\$79.00

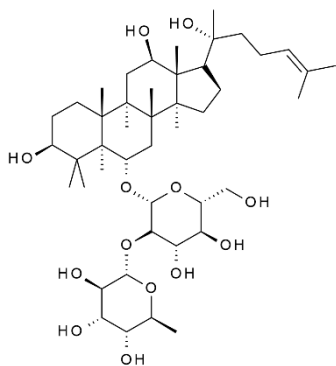


Refs: Chem. Pharm. Bull, 1966, 14, p1157

**(R)-Ginsenoside Rg2**

OG43905

Price On Application

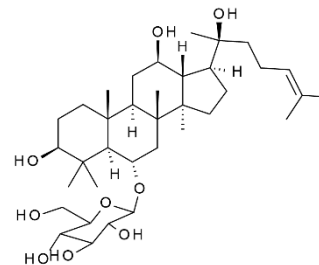
**Δ20(22)-Ginsenoside Rg6**

see 20(s)-Ginsenoside Rh2, OG09293 on page 251

**Ginsenoside Rh1**[63223-86-9] C<sub>36</sub>H<sub>62</sub>O<sub>9</sub> 638.89

OG09292

5mg	\$67.00
10mg	\$100.30
25mg	\$235.00

**Ginsenoside Rh3**[105558-26-7] C<sub>38</sub>H<sub>60</sub>O<sub>7</sub> 604.86

OG31927

1mg	\$125.00
2mg	\$200.00
5mg	\$395.00

**Ginsenoside Rh4**[174721-08-5] C<sub>38</sub>H<sub>60</sub>O<sub>8</sub> 620.86

OG31928

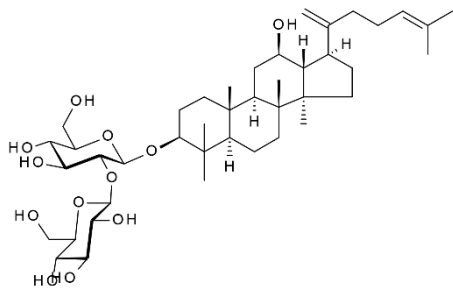
1mg	\$85.00
2mg	\$150.00
5mg	\$275.00



**GinsenosideR****Ginsenoside Rk1**[494753-69-4] C<sub>42</sub>H<sub>70</sub>O<sub>12</sub> 767

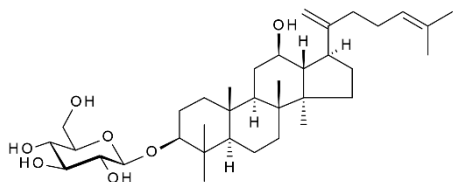
OG31930

1mg	\$95.00
2mg	\$170.00
5mg	\$350.00

**Ginsenoside Rk2**[364779-14-6] C<sub>38</sub>H<sub>60</sub>O<sub>7</sub> 604.86

OG31929

1mg	\$95.00
2mg	\$175.00
5mg	\$325.00

**Ginsenoside Rk3**[364779-15-7] C<sub>38</sub>H<sub>60</sub>O<sub>8</sub> 620.86

OG31931

1mg	\$75.00
2mg	\$130.00
5mg	\$250.00

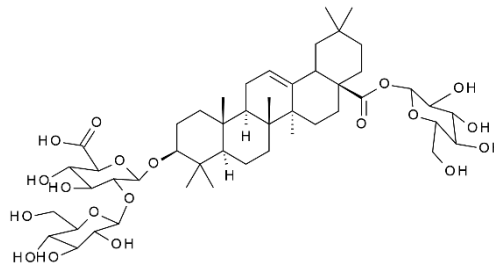
**Ginsenoside Ro**

- (3b)-28-(b-D-Glucopyranosyloxy)-28-oxoolean-12-en-3-yl 2-O-(b-D-glucopyranosyl)-b-D-glucopyranosiduronic acid
- Chikusetsusaponin
- Polysciasaponin P3

[34367-04-9] C<sub>48</sub>H<sub>76</sub>O<sub>19</sub> 957.13

OG09294

1mg	\$55.00
2mg	\$90.00
5mg	\$150.00



Refs: Chem. Pharm. Bull, 1971, 19, p1103

**GlcA[3S]b(1-3)Galb(1-4)GlcNAcb(1-2)Mana-Ethylazide**C<sub>28</sub>H<sub>44</sub>N<sub>4</sub>Na<sub>20</sub>O<sub>25</sub>S 1328.52

OG44930

Price On Application

**Glca2Glca2Glca2Glc**see *Kojitetraose, OK31572* on page 163**Glc-a-1,2-Glc**see *Kojibiose, OK05039* on page 163**Glc-b-1,4-Glc**see *D-Cellulobiose, OC04040* on page 58**Glc-b-1,4-Glc[1-13C]**see *[1-13C]D-Cellulobiose, OC76730* on page 58**(Glc-b-1,4)3-Glc**see *D-Cellotetraose, OC04674* on page 59**b-D-Glc-(1->6)-a-D-Glc-(1<->2)-b-D-Fru**see *Gentianose, OG08097* on page 116

**Glc-1-4Glc-1-3Glc**see 1,3:1,4-*b*-Glucotriose (B), OG32468 on page 132**Glc-a-1,6-Glc-a-1,4-Glc**see *D*-Panose, OP06685 on page 240**Glc1-3Glc1-4Glc**see 1,3:1,4 *b*-Glucotriose (A), OG32469 on page 132**Glc-a-1,4-Glc-a-1,4-Glc-a-1,6-Glc**see 6-*O*-(*a*-*D*-Maltotriosyl)-*D*-glucopyranose, OM07425 on page 187**Glc a1-6 Glc a1-4 Glc a1-4 Glc**see 6-*a*-*D*-Glucopyranosyl maltotriose, OG03873 on page 129**Glc1-3-Glc1-4-Glc1-4-Glc**see 1,3:1,4-*b*-Glucotetraose (A), OG32470 on page 131**Glc1-4-Glc1-4Glc-b1-3Glc**see 1,3:1,4-*b*-Glucotetraose (B), OG32471 on page 132**Glc1-4Glc1-3Glc1-4-Glc**see 1,3:1,4 *b*-Glucotetraose (C), OG32472 on page 132**Glc1-a-6Glc1-a-4Glc1-a-4Glc decatetraacetate**see 6-*a*-*D*-Glucopyranosylmaltotriose tetradecaacetate, OG16461 on page 130**N-GlcNAc-Biotin**

- 2-Acetamido-N-biotinyl-2-deoxy-*b*-*D*-glucopyranosylamine
- 2-Acetamido-2-deoxy-*b*-*D*-glucopyranosylaminobiotin

[1272755-69-7] C<sub>18</sub>H<sub>30</sub>N<sub>4</sub>O<sub>7</sub>S 446.52

OG60623

2mg	\$44.00
5mg	\$87.00
10mg	\$152.00

**GlcNAc-b,1-4-[Fuc-a,1-6]GlcNAc-b-O-Me**see Methyl 2-acetamido-4-*O*-(2-acetamido-2-deoxy-*b*-*D*-glucopyranosyl)-2-deoxy-6-*O*-(*a*-*L*-fucopyranosyl)-*b*-*D*-glucopyranoside, OM06834 on page 209**GlcNAc-α-(1-4)-Gal**see 4-*O*-(2-Acetamido-2-deoxy-*a*-*D*-glucopyranosyl)-*D*-galactopyranose, OA16438 on page 16**GlcNAc-b-1-4-GalNAc**see 2-Acetamido-4-*O*-(2-acetamido-2-deoxy-*b*-*D*-glucopyranosyl)-2-deoxy-*D*-galactopyranose, OA15842 on page 9**GlcNAc-b-1,3-GalNAc**see 2-Acetamido-2-deoxy-3-*O*-(2-acetamido-2-deoxy-*b*-*D*-glucopyranosyl)-*D*-galactopyranose, OA04445 on page 12**GlcNAc1b-6GalNAc**see 2-Acetamido-2-deoxy-6-*O*-(2-acetamido-2-deoxy-*b*-*D*-glucopyranosyl)-*D*-galactopyranose, OA16498 on page 12**GlcNAc-b-1,4-GlcNAc**see *N,N'*-Diacylchitobiose, OD00769 on page 76**GlcNAc-b-1,4-GlcNAc-b-1,4-GlcNAc-b-1,4-GlcNAc**see *N,N',N'',N'''*-Tetraacylchitotetraose, OT04211 on page 267**GlcNAc-b-1,4-GlcNAc-b-OBn**see Benzyl *N,N'*-*di*-acetyl-*b*-chitobioside, OB06763 on page 42**6'-b-GlcNAc-lactose**see 4-*O*-(6-*O*-[2-Acetamido-2-deoxy-*b*-*D*-glucopyranosyl]-*b*-*D*-galactopyranosyl)-*D*-glucopyranose, OA05021 on page 16**GlcNAc-b-1,2-Man**see 2-*O*-(2-Acetamido-2-deoxy-*b*-*D*-glucopyranosyl)-*D*-mannopyranose, OA04451 on page 16**GlcNAc-b-1,3-Man**see 3-*O*-(2-Acetamido-2-deoxy-*b*-*D*-glucopyranosyl)-*D*-mannopyranose, OA06738 on page 16**GlcNAc-1-b-4-MurNAc(OAc)5**see 2-Acetamido-4-*O*-(2-acetamido-2-deoxy-3,4,6-tri-*O*-acetyl-*b*-*D*-glucopyranosyl)-1,6-*di*-*O*-*N*-acetyl-*D*-muramic acid, OA05067 on page 10**GlcNb1-4{Fuca1-6}GlcN**see 6-*a*-*F*-ucosyl chitobiose, OF76592 on page 98

**GlcNPhthAcGa****GlcNPhth[346Ac]b(1-3)Gal[246Bn]-b-MP**

• 4-Methoxyphenyl 3-O-(3,4,6-Tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-2,4,6-tri-O-benzyl-b-D-galactopyranoside

C<sub>64</sub>H<sub>55</sub>NO<sub>16</sub> 974.01

OG60594	50mg	\$49.00
	100mg	\$86.00
	250mg	\$172.00



G

**a-D-Glc-(1→4)-a-D-Glc-(1→2)-b-D-Fru,**

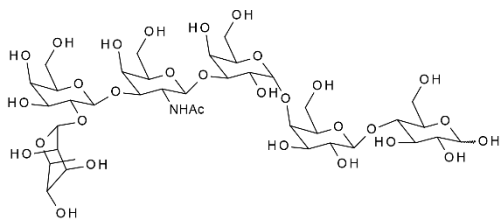
see *Erlöse, OE06974* on page 92

**Globo-H**

• Fuc-a-1,2-Gal-b-1,3-GalNAc-b-1,3-Gal-a-1,4-Gal-b-1,4-Glc

C<sub>38</sub>H<sub>65</sub>NO<sub>30</sub> 1015.91

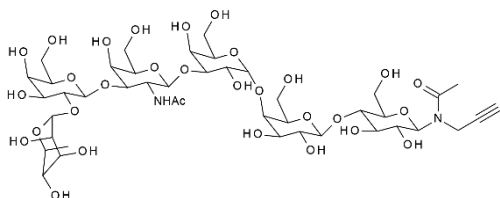
OG10692	1mg	\$130.00
	2mg	\$230.00
	5mg	\$475.00

**Globo-H-b-N-acetyl propargyl**

• Fuc-a-1,2-Gal-b-1,3-GalNAc-b-1,3-Gal-a-1,4-Gal-b-1,4-Glc-b-NAc-Prop

C<sub>43</sub>H<sub>70</sub>N<sub>2</sub>O<sub>30</sub> 1095.01

OG31308	1mg	\$1250.00
	2mg	\$2150.00
	5mg	\$2750.00

**Globo-H BSA conjugate**

OG45670

Price On Application

**Globoisotetraose**

• Isoglobotetraose  
• O-2-(Acetylamino)-2-deoxy-b-D-galactopyranosyl-(1→3)-O-a-D-galactopyranosyl-(1→3)-O-b-D-galactopyranosyl-(1→4)-D-glucose

[75645-26-0] C<sub>26</sub>H<sub>45</sub>NO<sub>21</sub> 707.63

OG157977

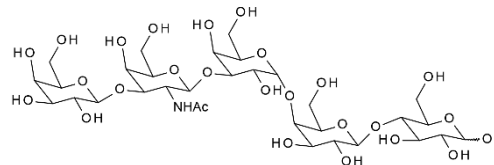
5mg	\$575.00
10mg	\$1000.00
25mg	\$2125.00

**Globopentaose**

[71937-76-3] C<sub>32</sub>H<sub>55</sub>NO<sub>26</sub> 869.77

OG10691

1mg	\$150.00
2mg	\$240.00
5mg	\$425.00

**Globo H pentenyl glycoside**

[284663-02-1]

OG45993

Price On Application





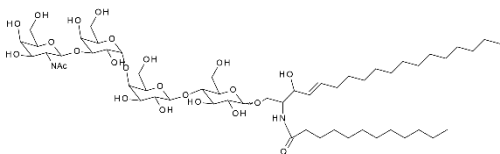
## Globoside

## • Globotetraosylceramide

[11034-93-8] C<sub>56</sub>H<sub>102</sub>N<sub>2</sub>O<sub>23</sub> 1171.41

OG06812

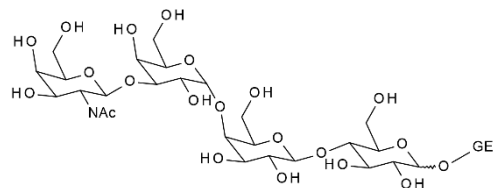
1mg	\$180.00
2mg	\$300.00
5mg	\$550.00



## Globo-N-tetraose GEL

OG03911

Price On Application



## Globosides

see *Neolactotetraosylceramide, ON29191* on page 229

## Globotetraosylceramide

see *Globoside, OG06812* on page 125

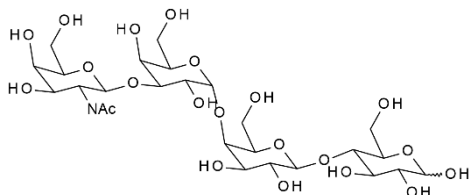
## Globo-N-tetraose

## • GalNAc-b-1,3-Gal-a-1,4-Gal-b-1,4-Glc

[75660-79-6] C<sub>26</sub>H<sub>46</sub>NO<sub>21</sub> 707.63

OG06574

500ug	\$275.00
1mg	\$498.80
2mg	\$955.50



## Globotriaosylceramide

- Gb3
- a-D-Gal-(1→4)-b-D-Gal-(1→4)-b-D-Glc-1→O-ceramide

[71965-57-6] C<sub>60</sub>H<sub>113</sub>NO<sub>18</sub> 1136.54

OG45939

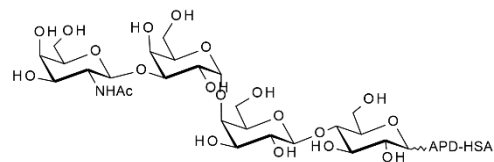
1mg	\$500.00
2mg	\$910.00
5mg	\$1975.00



## Globo-N-tetraose-APD-HSA

OG03888

0.5mg \$500.00



## Globotriaosylsphingosine

- a-D-Gal-(1→4)-b-D-Gal-(1→4)-b-D-Glc-1→O-sphingosine
- Lysoglobotriaosylceramide

[126550-86-5] C<sub>38</sub>H<sub>67</sub>NO<sub>17</sub> 785.91

OG44865

1mg	\$880.00
2mg	\$1700.00
5mg	\$3950.00

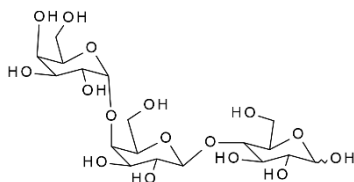


**Globotriose****Globotriose**

- Gal- $\alpha$ -1,4-Gal-b-1,4-Glc
- pk-Antigen

[66580-68-5] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

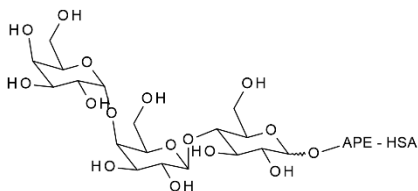
OG01626	1mg	\$75.00
	2mg	\$110.00
	5mg	\$175.00



Refs: Zhang J, Kowal P, Fang J, Andreana P, Wang PG, Carbohydr. Res. 2002, 337, p969-976

**Globotriose-APE-HSA**

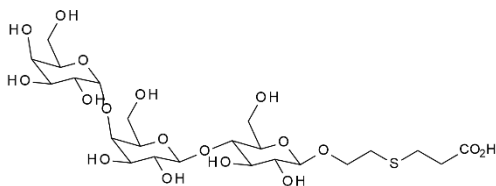
OG00181	1mg	\$787.50
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**Globotriose 2-(2-carboxyethylthio)ethane**

- 2-(2-Carboxyethylthio)-ethyl 4-O-[4-O(a-D-galactopyranosyl)-b-D-galactopyranoside]

C<sub>23</sub>H<sub>40</sub>O<sub>18</sub>S 636.62

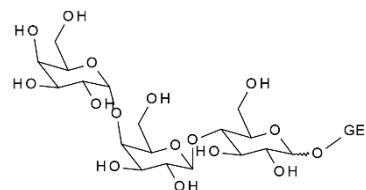
OG05180	250ug	\$105.00
	500ug	\$160.00
	1mg	\$262.50



Refs: Haataja S, et al, J. Biol. Chem. 1993, 268, 4311; Lingwood CA, et al, J. Biol. Chem. 1987, 262, 8834; Nudelman E, et al, Science 1983, 220, 509

**Globotriose-GEL**

OG00214	1g	\$520.00
	2g	\$860.00
	5g	\$1850.00

**Globotriose-HSA**

OG58610	1mg	\$129.72
	2mg	\$207.56
	5mg	\$332.10

**Globotriose-HSA**

OG58568	1mg	\$129.72
	2mg	\$207.56
	5mg	\$332.10

**Globotriose-sp-biotin**

- Gala1-4Galb1-4Glc-b-OCH2CH2NH-biotin

OG46868	1mg	\$450.00
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**a-Glucan oligosaccharide**

- a-oligoglucan

[27707-45-5]

OG143188

Price On Application



## Glucmannan oligosaccharides

OG63199	5mg	\$85.00
	10mg	\$150.00
	25mg	\$275.00



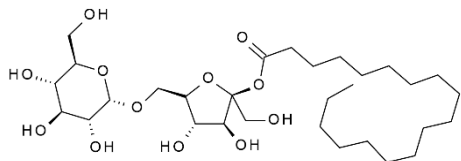
## 13-[(O-b-D-Glucopyranosyl-(1,2)-O-[b-D-glucopyranosyl]-oxy)-kaur-16-en-18-oic acid (4')-O-b-D-glucopyranosyl-deoxy-(1,2)-O-[b-D-glucopyranosyl ester

see *Rebaudioside E*, OR44886 on page 246

## a-D-Glucopyranoside-b-D-fructofuranosyl octadecanoate

[37318-31-3] C<sub>30</sub>H<sub>56</sub>O<sub>12</sub> 608.76

OG43989	100mg	\$395.00
	250mg	\$650.00
	500mg	\$1000.00



## 4-O-(b-D-Glucopyranosyl)-1,6-anhydro-D-glucopyranose

see *1,6-Anhydro-b-D-cellobiose*, OA07141 on page 32

## 4-O-(a-D-Glucopyranosyl)-1-deoxynojirimycin

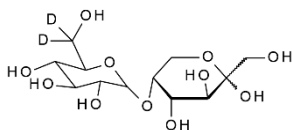
see *4-O-(a-D-Glucopyranosyl) moranoline*, OG04734 on page 130

## O-a-D-Glucopyranosyl-(1-3)-b-d-fructofuranosyl-(2-1)-a-D-glucopyranose

see *D-Melezitose monohydrate*, OM00386 on page 1985-O-(a-D-[6,6'-2H<sub>2</sub>]Glucopyranosyl)-D-fructopyranoseC<sub>12</sub>H<sub>20</sub>O<sub>11</sub>D<sub>2</sub> 344.31

OG11201

Price On Application



## O-a-D-Glucopyranosyl-(1-3)-D-fructopyranosyl-a-D-glucopyranose

see *D-Melezitose hydrate*, OM06904 on page 197

## 1-O-a-D-Glucopyranosyl-D-fructose

see *Trehalulose*, OT09774 on page 275

## 3-O-(a-D-Glucopyranosyl)-D-fructose

see *D-Turanose*, OT06692 on page 282

## 5-O-(a-D-Glucopyranosyl)-D-fructose

see *D-Leucrose*, OL06727 on page 174

## 6-O-(b-D-Glucopyranosyl)-D-fructose

see *Gentiobulose*, OG32576 on page 117

## 4-O-a-D-Glucopyranosyl-D-fructose monohydrate

see *Maltulose monohydrate*, OM06578 on page 188

## 6-O-(a-D-Glucopyranosyl)-D-fructose (monohydrate)

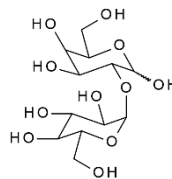
see *Isomaltulose*, OI04225 on page 159

## 2-O-a-D-Glucopyranosyl-D-galactopyranose

[7368-73-2] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OG06519

1mg	\$95.00
2mg	\$150.00
5mg	\$275.00



## 4-O-(b-D-Glucopyranosyl)-D-glucitol

see *Cellobiitol*, OC05007 on page 57

## 6-O-(a-D-Glucopyranosyl)-D-glucitol

see *Isomaltitol*, OI05006 on page 158

## 4-O-a-D-Glucopyranosyl-D-gluconic acid

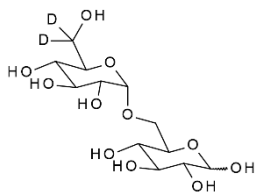
see *Maltobionic acid*, OM35454 on page 182

## Glucopyranos

**4-O-b-D-Glucopyranosyl-D-gluconic acid**see *Cellobionic acid ammonium salt*, OC61665 on page 57**2-O-(a-D-Glucopyranosyl)-a-D-glucopyranose**see *Kojibiose*, OK05039 on page 163**3-O-a-D-Glucopyranosyl-D-glucopyranose**see *Nigerose*, ON06975 on page 234**3-O-b-D-Glucopyranosyl-D-glucopyranose**see *Laminaribiose*, OL02452 on page 173**4-O-b-D-Glucopyranosyl-D-[1-13C]glucopyranose**see *[1-13C]D-Cellobiose*, OC76730 on page 58**4-O-(b-D-Glucopyranosyl)-D-glucopyranose**see *D-Cellobiose*, OC04040 on page 58**6-O-(a-D-Glucopyranosyl)-D-glucopyranose**see *Isomaltose*, OI04560 on page 159**6-O-(a-D-[6,6'-2H2]Glucopyranosyl)-D-glucopyranose** $C_{12}H_{20}O_{11}D_2$  344.31

Price On Application

OG11200

**6-O-(b-D-Glucopyranosyl)-D-glucopyranose**see *b-D-Gentiobiose*, OG05175 on page 116**4-O-a-D-Glucopyranosyl-D-glucopyranose monohydrate**see *D-Maltose monohydrate*, OM06621 on page 185**4-O-a-D-Glucopyranosyl-D-[1-13C]glucopyranose monohydrate**see *[1-13C]Maltose monohydrate*, OM76731 on page 185**3-O-(b-D-Glucopyranosyl)-D-glucopyranose octaacetate**see *1,2,4,6-Tetra-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-D-glucopyranose*, OT04763 on page 269**a-D-Glucopyranosyl b-D-glucopyranoside**see *a,b-Trehalose*, OT00157 on page 274**a-D-Glucopyranosyl-a-D-glucopyranoside anhydrous**see *a,a-D-Trehalose anhydrous*, OT03932 on page 274**a-D-Glucopyranosyl-a-D-glucopyranoside dihydrate**see *a,a-D-Trehalose dihydrate*, OT05313 on page 274**a-D-Glucopyranosyl-a-1,4-O-a-D-glucopyranosyl-1,4-D-glucitol**see *Maltotriitol*, OM06979 on page 187**3-O-a-D-Glucopyranosyl-3-O-a-D-glucopyranosyl-D-glucopyranose**see *Nigerotriose*, ON16240 on page 234**4-O-[6-O-(a-D-Glucopyranosyl)-a-D-glucopyranosyl]-D-glucopyranose**see *D-Panose*, OP06685 on page 240**13-O-[b-D-Glucopyranosyl-(1,2)-b-D-glucopyranosyl-(1,3)-b-D-glucopyranoside]-16-kauren-19-oic acid**see *Rebaudioside B*, OR44880 on page 246**a-D-glucopyranosyl-(1-4)-a-D-glucopyranosyl-(1-4)-a-D-glucopyranosyl-(1-4)-D-glucitol**see *Maltotetraitol*, OM06978 on page 186**a-D-Glucopyranosyl-1,4-O-a-D-glucopyranosyl-1,4-O-a-D-glucopyranosyl-1,4-D-glucopyranose**see *Maltotetraose*, OM02796 on page 186**4-O-[4-O-(6-O-a-D-Glucopyranosyl-a-D-glucopyranosyl)-a-D-glucopyranosyl]-D-glucose**see *6-O-(a-D-Maltotriosyl)-D-glucopyranose*, OM07425 on page 187**13-[(O-b-D-Glucopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl)oxy]-kaur-16-en-18-oic acid (4'-O-6-deoxy-L-mannopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl ester**see *Rebaudioside N*, OR44883 on page 247

**13-[(O-b-D-Glucopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl)oxy]-kaur-16-en-18-oic acid (4')-O-b-D-glucopyranosyl-(1,3)-O-6-deoxy-L-mannopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl ester**

see *Rebaudioside O*, OR44884 on page 247

**13-[(2-O-b-D-Glucopyranosyl-3-O-b-D-glucopyranosyl-b-D-glucopyranosyl)-oxy]-kaur-15-en-18-oic acid b-D-glucopyranosyl ester**

see *Isorebaudioside A*, OI44879 on page 160

**(4a)-13-[(2-O-b-D-Glucopyranosyl-3-O-b-D-glucopyranosyl-b-D-glucopyranosyl)-oxy]kaur-6-en-8-oic acid b-D-glucopyranosyl ester**

see *Rebaudioside A*, OR44890 on page 246

**(4a)-13-[(O-b-D-Glucopyranosyl-(1,3)-O-[b-D-glucopyranosyl-(1,2)]-b-D-glucopyranosyl)oxy]-kaur-16-en-18-oic acid b-D-glucopyranosyl ester**

see *Rebaudioside F*, OR44889 on page 247

**(4a)-13-[(O-b-D-Glucopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl)oxy]-kaur-16-en-18-oic acid 2-O-b-D-glucopyranosyl-b-D-glucopyranosyl ester**

see *Rebaudioside D*, OR44882 on page 246

**13-[(O-b-D-Glucopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl)oxy]-kaur-16-en-18-oic acid (4')-O-b-D-glucopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl ester**

see *Rebaudioside M*, OR44885 on page 247

**6-O-[6-O-(a-D-Glucopyranosyl)-a-D-glucopyranosyl]-D-glucose**

see *Isomaltotriose*, OI05352 on page 159

**a-[6-O-b-D-Glucopyranosyl-b-D-glucopyranosyl)oxy]- (R)-Benzeneacetonitrile**

see *D-Mandelonitrile-b-gentiobioside*, OM05087 on page 188

**3b-[2-O-b-D-Glucopyranosyl-b-D-glucopyranosyl)oxy]-dammar-24-ene-12b, 20 diol**

see *(20S)-Ginsenoside Rg3*, OG09291 on page 121

**(3b,12b)-20-[[6-O-b-D-Glucopyranosyl-b-D-glucopyranosyl)oxy]-12-hydroxydammar-24-en-3-yl 2-O-(b-D-glucopyranosyl)-b-D-glucopyranoside**

see *Ginsenoside Rb1*, OG09288 on page 118

**(3b,12b)-3-[(2-O-b-D-Glucopyranosyl-b-D-glucopyranosyl)oxy]-12-hydroxydammar-24-en-3-yl 6-O-(b-D-glucopyranosyl)-b-D-glucopyranoside**

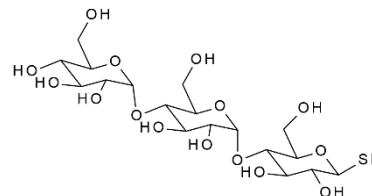
see *Ginsenoside Rb3*, OG09286 on page 119

**4-O-(4-O-(a-D-Glucopyranosyl)-a-D-glucopyranosyl)-b-D-thioglucopyranose**

C<sub>18</sub>H<sub>32</sub>O<sub>15</sub>S 520.5

OG10967

1mg	\$195.00
2mg	\$350.00
5mg	\$750.00



**2-O-(b-D-Glucopyranosyl)-a-D-glucose monohydrate**

see *a-Sophorose monohydrate*, OS06893 on page 259

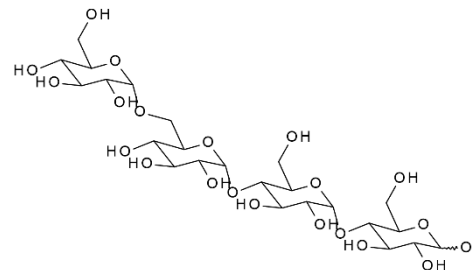
**6-a-D-Glucopyranosyl maltotriose**

- Glc a1-6 Glc a1-4 Glc a1-4 Glc
- Glucose tetrasaccharide
- 6"-a-D-Glucosyl-maltotriose

[34336-93-1][35175-16-7] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

OG03873

2mg	\$70.00
5mg	\$145.00
10mg	\$250.00

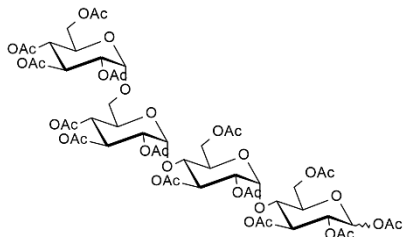


**Glucopyranos****6-a-D-Glucopyranosylmaltotriose tetradecaacetate**

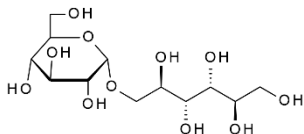
- Glc1-a-6Glc1-a-4Glc1-a-4Glc decatetraacetate
- O-2,3,4,6-Tetra-O-acetyl-a-D-glucopyranosyl-(16)-O-2,3,4-tri-O-acetyl-a-D-glucopyranosyl-(14)-O-2,3,6-tri-O-acetyl-a-D-glucopyranosyl-(14)-D-glucopyranose tetraacetate

[852311-55-8] C<sub>52</sub>H<sub>70</sub>O<sub>35</sub> 1255.09

OG16461	5mg	\$124.90
	10mg	\$227.20
	25mg	\$413.00

**1-O-(a-Glucopyranosyl)-D-mannitol - Dihydrate**[20942-99-8] C<sub>12</sub>H<sub>24</sub>O<sub>11</sub> 344.31

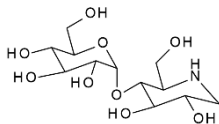
OG08096	1g	\$68.30
	2g	\$115.50
	5g	\$183.80

**4-O-(a-D-Glucopyranosyl) moranoline**

- G1M
- 4-O-(a-D-Glucopyranosyl)-1-deoxynojirimycin

[80312-32-9] C<sub>12</sub>H<sub>23</sub>NO<sub>9</sub> 325.32

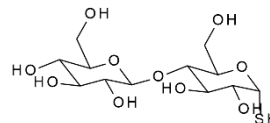
OG04734	500ug	\$150.00
	1mg	\$270.00
	2mg	\$500.00



Refs: Ezure Y, et al, Acta. Cryst. 1987, C43, p1809; Ezure Y, et al, Chem. Pharm. Bull. 1989, 37, p106

**(3b,6a,12b)-20-(b-D-Glucopyranosyloxy)-3,12-dihydroxydammar-24-en-6-yl 2-O-(6-deoxy-a-L-mannopyranosyl)-b-D-glucopyranoside**see *Ginsenoside Re*, OG09285 on page 119**(3b,12b)-20-(b-D-Glucopyranosyl)oxy]-12-hydroxydammar-24-en-3-yl 2-O-(b-D-glucopyranosyl)-b-D-glucopyranoside**see *Ginsenoside Rd*, OG09282 on page 119**(3b, 25R)-26-(b-D-glucopyranosyloxy)-22-hydroxyfurost-5-en-3-yl O-6-deoxy-a-L-mannopyranosyl-(1-2)-O-[6-deoxy-a-L-mannopyranosyl-(1-4)]-b-D-glucopyranoside**see *Protodioscin*, OP09383 on page 244**6-((E)-4-b-D-glucopyranosyloxy-3-methylbut-2-enylamino)-9-b-D-glucopyranosylpurine**see *trans-Zeatin-9-glucoside-o-glucoside*, OZ30320 on page 285**(3b)-28-(b-D-Glucopyranosyloxy)-28-oxoolean-12-en-3-yl 2-O-(b-D-glucopyranosyl)-b-D-glucopyranosiduronic acid**see *Ginsenoside Ro*, OG09294 on page 122**3-O-a-D-Glucopyranosyl-swainsonine**see *Fleetamine*, OF63532 on page 94**4-O-(b-D-Glucopyranosyl)-a-D-thioglucopyranose**C<sub>12</sub>H<sub>22</sub>O<sub>10</sub>S 358.36

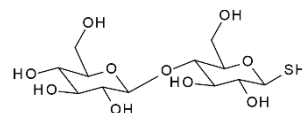
OG12448	5mg	\$42.00
	10mg	\$73.50
	25mg	\$157.50

**4-O-(b-D-Glucopyranosyl)-b-D-thioglucopyranose**

- Cellobiose thiol

C<sub>12</sub>H<sub>22</sub>O<sub>10</sub>S 358.36

OG10933	5mg	\$94.50
	10mg	\$178.50
	25mg	\$394.00

**D-Glucopyranosyl-b-D-thioglucopyranoside**see *Thiodiglucoside*, OT05018 on page 273

**(3b,14a)-3-O-b-D-glucopyranosyl-(1→2)-[b-D-xylopyranosyl-(1→3)]-b-D-glucopyranosyl-(1→4)-b-D-galactopyranosyl-(25S)-spirost-5-ene**

OG74568

Price On Application



**3-O-(2-O-b-D-Glucopyranuronosyl-a-D-glucopyranuronosyl)-18-b-glycyrrhetic acid**

see *Glycyrrhizic acid*, OG08293 on page 136

**D-Glucose, a-D-galactopyranosyl-(1-6)-a-D-galactopyranosyl-(1-6)-a-D-galactopyranosyl-(1-6)-**

see *Verbascotetraose*, OV10601 on page 283

**Glucose tetrasaccharide**

see *6-a-D-Glucopyranosyl maltotriose*, OG03873 on page 129

**6-O-a-D-Glucosyl-a-cyclodextrin**

[10058-19-2] C<sub>42</sub>H<sub>70</sub>O<sub>35</sub> 1134.98

OG30013

Price On Application

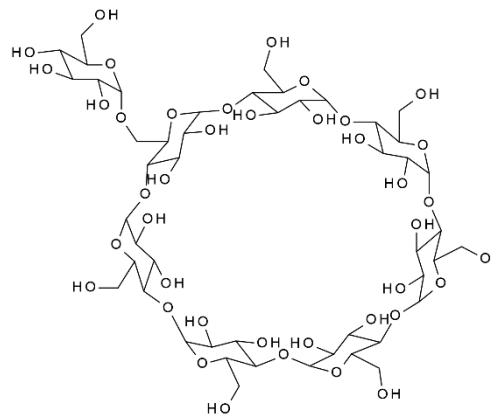


**6-O-a-D-Glucosyl-b-cyclodextrin**

[92517-02-7] C<sub>48</sub>H<sub>80</sub>O<sub>40</sub> 1297.12

OG34863

Price On Application



**6-o-a-D-Glucosyl-maltose**

see *Isopanose*, OI09775 on page 159

**6''-a-D-Glucosyl-maltotriose**

see *6-a-D-Glucopyranosyl maltotriose*, OG03873 on page 129

**a-Glucosylrutin**

[130603-71-3] C<sub>33</sub>H<sub>40</sub>O<sub>21</sub> 772.66

OG71735

1g	\$95.00
2g	\$150.00
5g	\$325.00



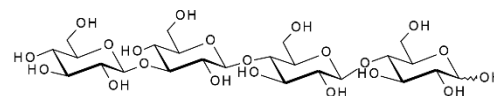
**1,3:1,4-b-Glucotetraose (A)**

• Glc1-3-Glc1-4-Glc1-4-Glc

[58484-04-1] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

OG32470

Price On Application



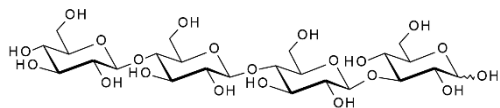
**Glucotetraos****1,3:1,4-b-Glucotetraose (B)**

• Glc1-4-Glc1-4Glc-b1-3Glc

[58484-02-9] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

OG32471

10mg	\$125.00
25mg	\$212.50
50mg	\$375.00

**D-Glucuronan**

OG59632

Price On Application

**A1 N-Glycan**

• A2G2S1 N-Glycan

[145211-79-6] C<sub>73</sub>H<sub>121</sub>N<sub>5</sub>O<sub>54</sub> 1932.74

OA15860

10ug	\$500.00
20ug	\$660.00

**A2 N-Glycan**

• A2G2S2 N-glycan

• Di-sialylated, galactosylated, bi-antennary N-linked glycan

[71496-55-4] C<sub>84</sub>H<sub>138</sub>N<sub>6</sub>O<sub>62</sub> 2224

OA15862

10ug	\$380.00
20ug	\$560.00

**A2 N-Glycan**see *NGA2 N-Glycan*, *ON01667* on page 233**A2B N-Glycan**

• Sialo, bisected, biantennary N-linked glycan

OA28971

Price On Application

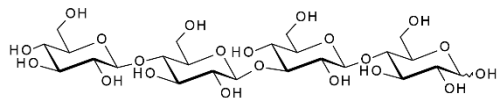
**1,3:1,4 b-Glucotetraose (C)**

• Glc1-4Glc1-3Glc1-4-Glc

[103762-93-2] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

OG32472

5mg	\$99.80
10mg	\$157.50
25mg	\$252.00

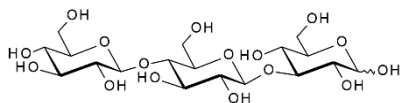
**1,3:1,4-b-Glucotriose (B)**

• Glc1-4Glc1-3Glc

[157544-59-7] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OG32468

10mg	\$95.00
25mg	\$175.00
50mg	\$275.00

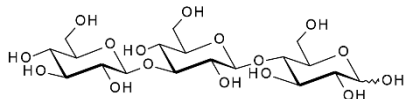
**1,3:1,4 b-Glucotriose (A)**

• Glc1-3Glc1-4Glc

[4467-70-3] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OG32469

5mg	\$50.00
10mg	\$95.00
25mg	\$175.00

**a-1,4-Glucotriose**see *Maltotriose*, *OM06486* on page 187



**A3 N-Glycan**

• A3G3S3 Glycan

[145164-24-5] C<sub>109</sub>H<sub>178</sub>N<sub>6</sub>O<sub>20</sub> 2880.59

OA15864

10ug	\$235.00
20ug	\$340.00

**A3 N-Glycan**

see NGA3 N-Glycan, ON10161 on page 233

**A4 N-Glycan**

see NGA4 N-Glycan, ON10166 on page 234

**A1 Glycan, 2-AB labelled**

OA58585

Price On Application

**A2 Glycan, 2-AB labelled**

OA58587

Price On Application

**A3 Glycan, 2-AB labelled**

OA58590

Price On Application

**N-Glycolyl GM1 ganglioside**

• GM1 NeuGc-Ganglioside

OG63297

1mg	\$2500.00
2mg	\$3200.00
5mg	\$4000.00

**3'-N-Glycolylneuraminy-D-lactose sodium salt**

• Neu5Gc-a-2-3-Gal-b-1-4-Glc

OG46739

Price On Application

**6'-N-Glycolylneuraminy-D-lactose sodium salt**

OG57781

Price On Application

**Glycopyranoside Lipid A**

see Lipid A monophosphoryl, OL29175 on page 179

**Glycyl-asialo, galactosylated biantennary**

1697.56

OG58497

Price On Application



**Glycylasialo****Glycyl-asialo, galactosylated fucosylated biantennary**

1843.7

OG58498

Price On Application

**Glycyl-lacto-N-difucohexaose I**

1055.98

OG58501

Price On Application



G

**Glycyl-chitobiose**

480.47

OG58499

Price On Application

**Glycyl-lacto-N-fucopentaose I**

909.84

OG58502

1mg

\$90.71

**Glycyl-disialyllacto-N-tetraose**

1346.21

OG58500

Price On Application

**Glycyl-lacto-N-fucopentaose II**

909.84

OG58503

1mg

\$90.71

**Glycyl-2'-fucosyllactose** $C_{20}H_{36}N_2O_{15}$  544.5

OG58493

1mg	\$89.71
2mg	\$154.00
5mg	\$225.00

**Glycyl-lacto-N-fucopentaose VI**

909.84

OG58504

Price On Application

**Glycyl-3'-fucosyllactose**

544.5

OG58494

1mg

\$90.71

**Glycyl-lacto-N-neodifucohexaose I**

1055.98

OG58505

Price On Application



**Glycyl-lacto-N-neotetraose**

763.7  
OG58506 1mg \$90.71

**Glycyl-lactose**

• Lac-gly  
 $C_{14}H_{26}N_2O_{11}$  398.36  
OG58508 1mg \$395.00

**Glycyl-lacto-N-tetraose**

763.7  
OG58507 1mg \$90.71

**Glycyl-Lewisia**

585.56  
OG58509 Price On Application

**Glycyl-monosialyllacto-N-neohexose I**

1420.28  
OG58511 Price On Application

**Glycyl-monosialyl,monofucosyllacto-N-neohexose I**

1566.43  
OG58510 1mg \$89.84

**Glycyl-Oligosaccharidesmannose 1**

642.61  
OG58512 Price On Application

**Glycyl-Oligosaccharidesmannose 3(a)**

966.89  
OG58513 Price On Application

**Glycyl-Oligosaccharidesmannose 5**

1291.17  
OG58514 Price On Application

**Glycyl-Oligosaccharidesmannose 6**

1453.31  
OG58515 Price On Application



G

## Glycylsialyl

## Glycyl-3'-sialyllactose

689.62		
OG58495	1mg	\$90.71



## Glycyl-sialyllacto-N-tetraose c

1054.95		
OG58518	1mg	\$90.71



G

## Glycyl-3'-sialyllactose

see *NeuAc-a2,3-Gal-b-1,4-Glc-GlycineNH2*, ON09339 on page 230

## Glycyl-6'-sialyllactose

689.62		
OG58496	1mg	\$90.71



## Glycyl-sialyllacto-N-tetraose a

$C_{39}H_{66}N_4O_{29}$	1054.95	
OG58516	1mg	\$1100.00
	2mg	\$1950.00
	5mg	\$4250.00



## Glycyl-sialyllacto-N-tetraose b

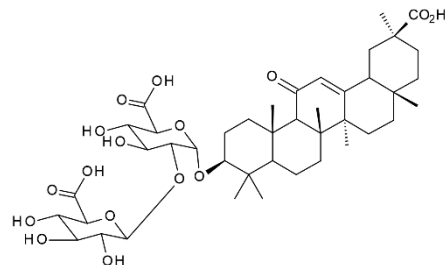
1054.95		
OG58517	1mg	\$90.71



## Glycyrrhizic acid

- (3b,20b)-20-Carboxy-11-oxo-30-norolean-12-en-3-yl 2-O-(b-D-glucopyranuronosyl)-b-D-glucopyranosiduronic Acid
- 3-O-(2-O-b-D-Glucopyranuronosyl-a-D-glucopyranuronosyl)-18-b-glycyrrhetic acid

[1405-86-3]	$C_{42}H_{62}O_{16}$	822.93	
OG08293			25g \$75.00
			50g \$125.00
			100g \$195.00



Refs: Justus Liebigs Ann. Chem, 1846, 59, p224

## Glycyrrhizin monoammonium salt

[53956-04-0][1407-03-0]	$C_{42}H_{65}NO_{16}$	839.96	
OG33320			50g \$75.00
			100g \$120.00
			250g \$225.00



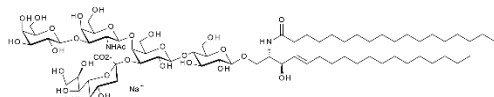
## G1M

see *4-O-(a-D-Glucopyranosyl) moranoline*, OG04734 on page 130

**GM1-Ganglioside**

- Gal(b1-3)GalNAc(b1-4)[Neu5Ac(a2-3)]Gal(b1-4)Glc(b1-1)Cers
- Monosialoganglioside GM1

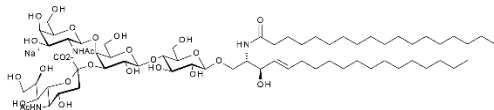
[37758-47-7] C<sub>73</sub>H<sub>131</sub>N<sub>3</sub>O<sub>31</sub>·xNa 1546.82 (free acid basis)  
 OG03918 25mg \$65.00  
 50mg \$105.00  
 100mg \$175.00



Refs: June 2008 The Journal of Lipid Research, 49, 1176-1186,

**GM2-Ganglioside**

[19600-01-2] C<sub>67</sub>H<sub>121</sub>N<sub>3</sub>O<sub>26</sub>·xNa 1384.68 (free acid basis)  
 OG16187 1mg \$500.00  
 2mg \$900.00  
 5mg \$1975.00

**GM3-Ganglioside**

[54827-14-4] C<sub>59</sub>H<sub>111</sub>N<sub>3</sub>O<sub>21</sub>·xNa 1198.52 (free acid basis)  
 OG16188 1mg \$295.00  
 2mg \$550.00  
 5mg \$1250.00

**GM4-Ganglioside**

[66456-69-7] C<sub>57</sub>H<sub>106</sub>N<sub>2</sub>O<sub>17</sub>·xNa 1091.45 (free acid basis)  
 OG16189 1mg \$1050.00

**GM1-Ganglioside labelled by biotin**

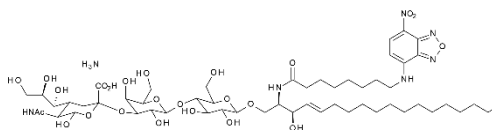
- N-Hexanoyl-biotin-monosialoganglioside GM1

C<sub>71</sub>H<sub>122</sub>N<sub>6</sub>O<sub>33</sub>S 1619.82 0.5mg \$950.00  
 OG31354

**GM3-Ganglioside labelled by BND**

- N-Acetyl-a-D-neuraminic acid)-(2->3)-O-b-D-galactopyranosyl-(1->4)-O-b-D-glucopyranosyl-(1->1)-(2S,3R,4E)-2-N-(7-nitrobenz-2-oxa-1,3-diazol-4-yl)amino-octanamide-4-octadecene-1,3-diol ammonium salt
- aNeu5Ac(2-3)bDGalp(1-4)bDGlcp(1-1)Cer linked 7-nitrobenz-2-oxa-1,3-diazole

C<sub>55</sub>H<sub>90</sub>N<sub>6</sub>O<sub>24</sub>·H<sub>3</sub>N 1236.36 0.1mg \$367.50  
 0.2mg \$630.00  
 0.5mg \$1470.00  
 OG09793

**GM1, GD1a, GD1b, GT1b gangliosides, mixed ammonium salts**

see *Gangliosides*, OG63365 on page 116

**GM1-Lysoganglioside**

- lyso-Monosialoganglioside GM1

[171483-40-2] C<sub>55</sub>H<sub>97</sub>N<sub>3</sub>O<sub>30</sub>·xNa 1280.36 (free acid basis)  
 OL44867 1mg \$550.00  
 2mg \$960.00  
 5mg \$2100.00

**GM1 NeuGc-Ganglioside**

see *N-Glycolyl GM1 ganglioside*, OG63297 on page 133

## GMNeuGcGangl

## GM3NeuGc-Ganglioside

• a-Neu5Gc-(2-3)-b-Gal-(1-4)-b-Glc-(1-1)-Cer

OG158639	1mg	\$995.00
	2mg	\$1900.00
	5mg	\$4500.00



## GM1a-Oligosaccharide

• Galb1-3GalNAcb1-4(Neu5Aca2-3)Galb1-4Glc

C<sub>37</sub>H<sub>61</sub>N<sub>2</sub>O<sub>29</sub>Na 1020.87

OO46231	1mg	\$135.00
	2mg	\$200.00
	5mg	\$400.00



## GM1b-Oligosaccharide

C<sub>37</sub>H<sub>61</sub>N<sub>2</sub>O<sub>29</sub>Na 1020.87

OO46230	5mg	\$495.00
	25mg	\$1550.00



## GM2-Oligosaccharide

C<sub>31</sub>H<sub>51</sub>N<sub>2</sub>O<sub>24</sub>Na 858.73

OO46228	1mg	\$180.00
	2mg	\$280.00
	5mg	\$525.00



## GM2-Oligosaccharide-sp-biotin

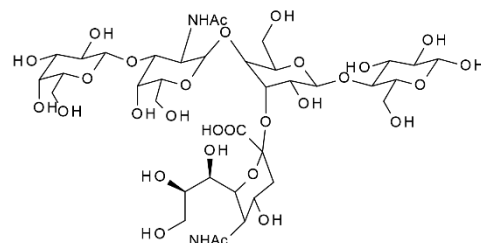
OO57595	1mg	\$3100.00
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## GM1-Pentasaccharide

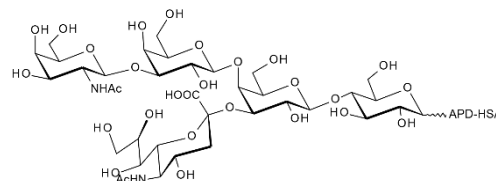
[52659-37-7] C<sub>37</sub>H<sub>62</sub>N<sub>2</sub>O<sub>29</sub> 998.88

OP03880	100ug	\$140.00
	200ug	\$220.00
	500ug	\$375.00



## GM1-Pentasaccharide, APD-HSA conjugate

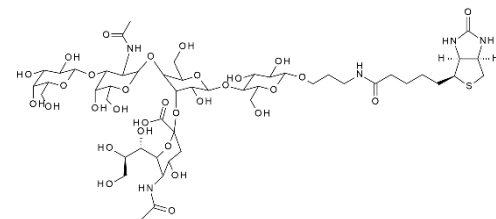
OP05678	500ug	\$580.00
	1mg	\$997.50



## GM1-Pentasaccharide labelled by biotin

C<sub>20</sub>H<sub>83</sub>N<sub>5</sub>O<sub>31</sub>S 1282.28

OP31185	0.5mg	\$1500.00
	1mg	\$2500.00
	2mg	\$3900.00



## GM3 trisaccharide sodium salt

see 3'-Sialyllactose sodium salt, OS04397 on page 255

**GNA2 N-Glycan**

• Monogalactosylated, biantennary N-linked glycan

OG28973

Price On Application

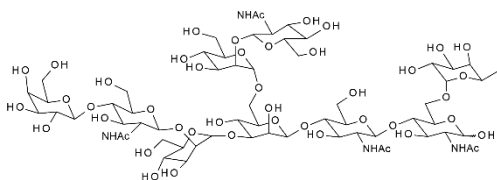
**G-NGA2F N-Glycan**

• Monogalactosylated, core fucosylated, asialo, bi-antennary N-linked glycan

[84825-26-3] C<sub>62</sub>H<sub>104</sub>N<sub>4</sub>O<sub>46</sub> 1641.49

ON10168

25ug	\$315.00
50ug	\$525.00
100ug	\$945.00

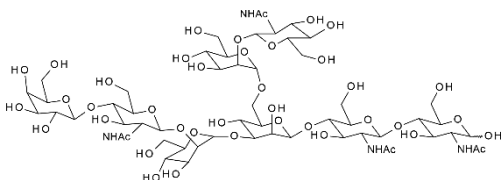
**G-NGA2 N-Glycan**

• Monogalactosylated, asialo, bi-antennary N-linked glycan

[103584-68-5] C<sub>56</sub>H<sub>94</sub>N<sub>4</sub>O<sub>41</sub> 1479.35

ON10164

10ug	\$315.00
20ug	\$399.00
100ug	\$1600.00

**GOS**see *Galactooligosaccharides*, OG32134 on page 101**GQ1b-Ganglioside**

• Tetrasialoganglioside 1b

[68652-37-9] C<sub>106</sub>H<sub>182</sub>N<sub>6</sub>O<sub>56</sub>·4H<sub>3</sub>N 2504.71

OG16190

0.5mg	\$600.00
1mg	\$900.00
2mg	\$1500.00

**GQ3-Oligosaccharide**

• Neu5Aca2-8Neu5Aca2-8Neu5Acb2-8Neu5Aca2-3Galb1-4Glc

C<sub>56</sub>H<sub>86</sub>N<sub>4</sub>O<sub>33</sub>Na<sub>4</sub> 1595.24

OO46236

Price On Application

**Gracillin**[19083-00-2] C<sub>45</sub>H<sub>72</sub>O<sub>17</sub> 885.04

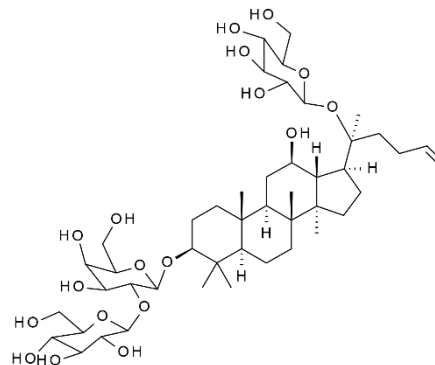
OG59524

10mg	\$65.00
25mg	\$137.50
50mg	\$225.00

**Gynosaponin S**see *Gypenoside XVII*, OG32258 on page 140**Gypenoside I**[85889-20-9] C<sub>46</sub>H<sub>76</sub>O<sub>18</sub> 919.1

OG10450

Price On Application

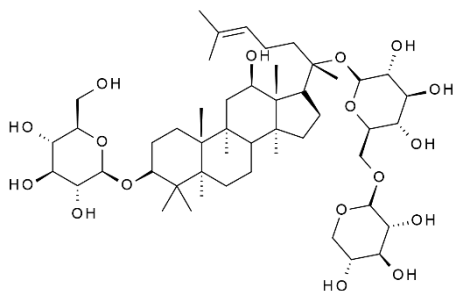
**Gypenoside III**see *Ginsenoside Rb1*, OG09288 on page 118**Gypenoside IV**see *Ginsenoside Rb3*, OG09286 on page 119

**GypenosideIX****Gypenoside IX**

[80321-63-7]

OG44044

Price On Application

**Gypenoside XLIX**

[94987-08-3]

C<sub>52</sub>H<sub>86</sub>O<sub>21</sub> 1047.23

OG32259

5mg	\$99.80
10mg	\$173.30
20mg	\$283.60

**Gypenoside XLVI**

[94705-70-1]

C<sub>48</sub>H<sub>82</sub>O<sub>19</sub> 963.15

OG71605

5mg	\$57.00
10mg	\$100.00
25mg	\$200.00

**Gypenoside XVII**

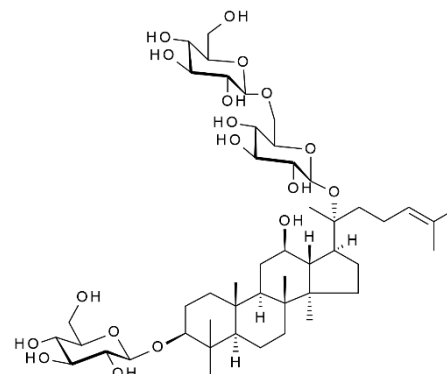
• Gynosaponin S

[80321-69-3]

C<sub>48</sub>H<sub>82</sub>O<sub>18</sub> 947.15

OG32258

5mg	\$75.00
10mg	\$130.00
25mg	\$240.00

**Hederacoside C**

- Akebiasaponin PK
- Tauroside H2

[27013-76-9][14216-03-6]

C<sub>59</sub>H<sub>96</sub>O<sub>26</sub> 1221.38

OH32563

30mg	\$75.00
50mg	\$100.00
100mg	\$175.00

**HEMC**see *Methyl 2-hydroxyethyl cellulose*, OM30632 on page 216**Heneicosa-O-methyl-β-cyclodextrin**see *Heptakis(2,3,6-tri-O-methyl)cyclomaltoheptaose*, OH30169 on page 148



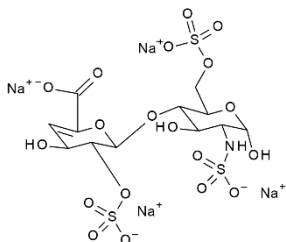
**Heparin derived disaccharide sodium salt**

- 2-Deoxy-2-sulfoamino-6-O-sulfo-4-O-(2-O-sulfo-a-L-idopyranuronosyl)-a-D-glucopyranose
- 4-O-(a-L-Idopyranosyluronic acid 2-sulfate)-D-glucosamine 2,6-disulfate

[363148-40-7][98797-50-3] C<sub>12</sub>H<sub>15</sub>NO<sub>19</sub>S<sub>3</sub>Na<sub>4</sub> 665.4

OH04431

1mg	\$150.00
2mg	\$260.00
5mg	\$550.00

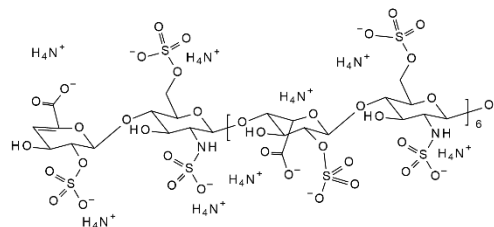
**Heparin derived dp14 saccharide ammonium salt**

~4100 (Average)

OH04004

2mg

\$472.50

**Heparin derived dp16 saccharide ammonium salt**

~4650 (Average)

OH10451

1mg

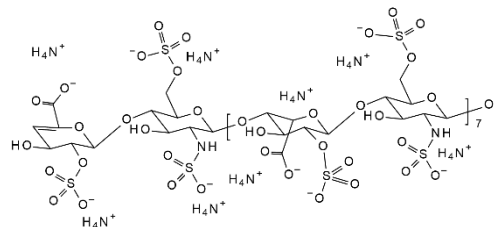
\$300.00

2mg

\$420.00

5mg

\$990.00

**Heparin derived dp18 saccharide ammonium salt**

~ 5200 (average)

OH35414

1mg

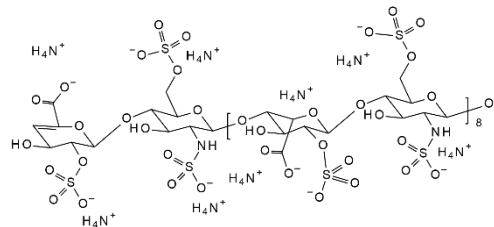
\$265.00

2mg

\$420.00

5mg

\$990.00

**Heparin derived dp10 saccharide ammonium salt**

~3000 (Average)

OH04435

1mg

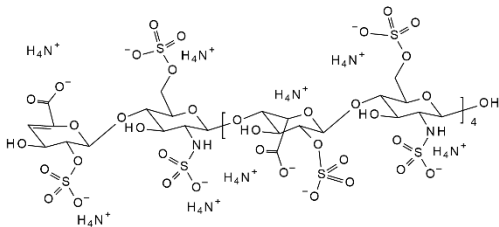
\$250.00

2mg

\$450.00

5mg

\$1025.00

**Heparin derived dp12 Saccharide ammonium salt**

~3550 (Average)

OH04432

2mg

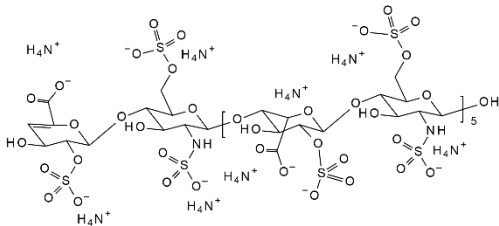
\$472.50

4mg

\$798.00

10mg

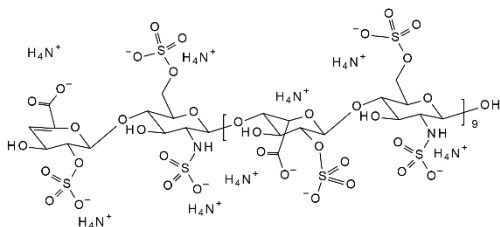
\$1890.00



**Heparinderiv****Heparin derived dp20 saccharide ammonium salt**

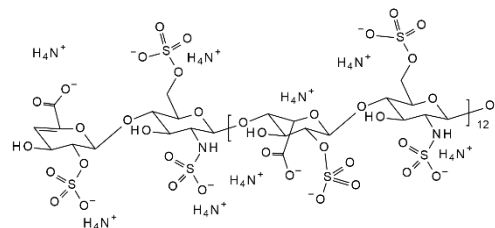
-5750 (Average)

OH08956

1mg  
2mg  
5mg\$295.00  
\$420.00  
\$990.00**Heparin derived dp26 saccharide ammonium salt**C<sub>156</sub>H<sub>207</sub>N<sub>13</sub>O<sub>247</sub>S<sub>39</sub>Na<sub>52</sub> 8662.29

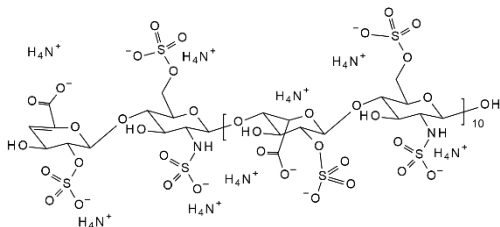
OH08959

Price On Application

**Heparin derived dp22 saccharide ammonium salt**

-6300 (Average)

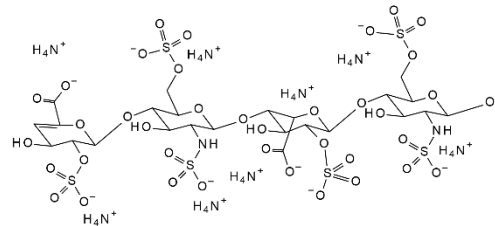
OH08957

2mg  
5mg  
10mg\$420.00  
\$975.00  
\$1900.00**Heparin derived dp4 saccharide ammonium salt**

[61844-85-7]

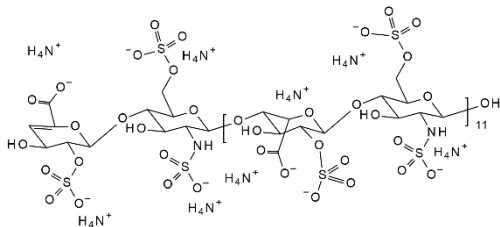
Av 1200

OH04434

1mg  
2mg  
5mg\$295.00  
\$430.00  
\$995.00**Heparin derived dp24 saccharide ammonium salt**

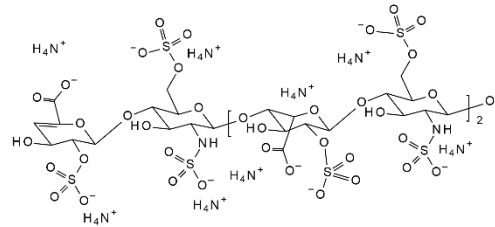
Average 6850

OH08958

1mg  
2mg  
5mg\$315.00  
\$475.00  
\$975.00**Heparin derived dp6 saccharide ammonium salt**

~1800 (Average)

OH04433

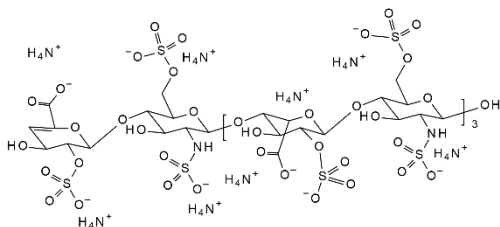
1mg  
2mg  
5mg\$250.00  
\$450.00  
\$1000.00

**Heparin derived dp8 saccharide ammonium salt**

~2400 (Average)

OH06086

1mg	\$320.00
2mg	\$472.50
5mg	\$1023.80

**Heparin disaccharide III-H disodium salt**[136098-01-6] C<sub>12</sub>H<sub>18</sub>NNaO<sub>13</sub>S 439.33

OH28917

1mg	\$350.00
2mg	\$640.00
5mg	\$1100.00

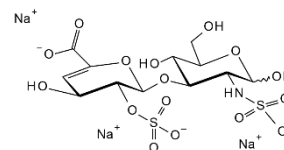
**Heparin disaccharide III-S trisodium salt**

• Trisodium salt, mw: 563.35

[136098-03-8] C<sub>12</sub>H<sub>19</sub>NO<sub>16</sub>S<sub>2</sub> 497.41

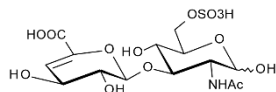
OH28908

1mg	\$325.00
2mg	\$620.00
5mg	\$1375.00

**Heparin disaccharide II-A disodium salt**[136098-06-1] C<sub>14</sub>H<sub>19</sub>NO<sub>14</sub>SNa<sub>2</sub> 503.34

OH28911

1mg	\$325.00
2mg	\$620.00
5mg	\$1375.00

**Heparin disaccharide II-H disodium salt**[136098-02-7] C<sub>12</sub>H<sub>18</sub>NNaO<sub>13</sub>S 439.33

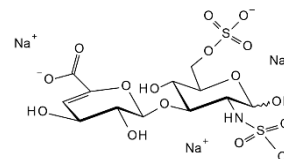
OH28915

1mg	\$350.00
2mg	\$640.00
5mg	\$1100.00

**Heparin disaccharide II-S trisodium salt**[136098-05-0] C<sub>12</sub>H<sub>16</sub>NNa<sub>3</sub>O<sub>16</sub>S<sub>2</sub> 563.35

OH28907

1mg	\$350.00
2mg	\$670.00
5mg	\$1600.00

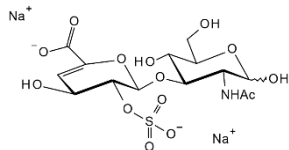
**Heparin disaccharide III-A disodium salt**

• Disodium salt, mw: 503.34

[136098-11-8] C<sub>14</sub>H<sub>21</sub>NO<sub>14</sub>S 459.38

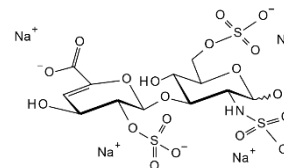
OH28912

1mg	\$325.00
2mg	\$620.00
5mg	\$1375.00

**Heparin disaccharide I-S, tetrasodium salt**[136098-10-7] C<sub>12</sub>H<sub>15</sub>NO<sub>19</sub>S<sub>3</sub>·4Na 665.4

OH28906

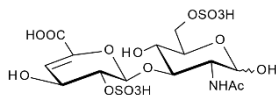
1mg	\$70.00
2mg	\$130.00
5mg	\$300.00



**Heparindisac****Heparin disaccharide I-A trisodium salt**[136098-00-5] C<sub>14</sub>H<sub>21</sub>NO<sub>17</sub>S<sub>2</sub> 539.45

OH28910

1mg	\$325.00
2mg	\$620.00
5mg	\$1375.00

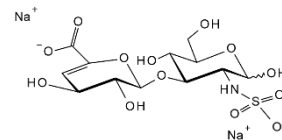
**Heparin disaccharide IV-S disodium salt**

• disodium salt, MW: 483.35

[136098-08-3] C<sub>12</sub>H<sub>19</sub>NO<sub>13</sub>S 417.34

OH28909

1mg	\$350.00
2mg	\$640.00
5mg	\$1425.00



H

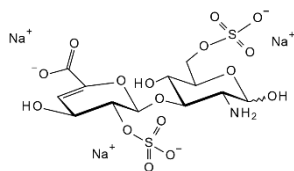
**Heparin disaccharide I-H trisodium salt**

• Trisodium salt, mw: 563.35

[136098-04-9] C<sub>12</sub>H<sub>19</sub>NO<sub>16</sub>S<sub>2</sub> 497.41

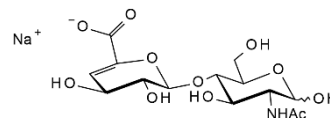
OH28914

1mg	\$350.00
2mg	\$640.00
5mg	\$1450.00

**Heparin disaccharide IV-A, sodium salt**[136098-07-2] C<sub>14</sub>H<sub>20</sub>NO<sub>11</sub>-Na 401.3

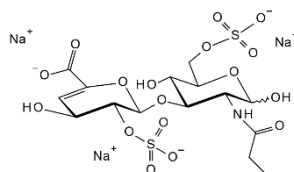
OH28913

1mg	\$325.00
2mg	\$620.00
5mg	\$1375.00

**Heparin disaccharide I-P trisodium salt**[149368-05-8] C<sub>15</sub>H<sub>20</sub>NO<sub>17</sub>S<sub>2</sub>Na<sub>3</sub> 619.42

OH28919

1mg	\$215.30
2mg	\$367.50
5mg	\$866.30

**Heparin sulfate NS-oligosaccharide NS**

OH04005

Price On Application

**Heparin sulfate oligosaccharide NAC**

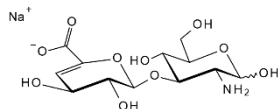
OH04006

Price On Application

**Heparin disaccharide IV-H**[123228-39-7] C<sub>12</sub>H<sub>19</sub>NO<sub>10</sub> 337.28

OH28918

1mg	\$350.00
2mg	\$640.00
5mg	\$925.00

**1,2,3,6,2',3',6'-Hepta-O-acetyl-4'-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-α-D-galactopyranosyl)-β-D-lactopyranoside**

OH74814

Price On Application



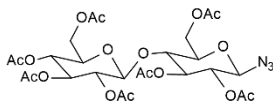
**2,3,6,2',3',4',6'-Hepta-O-acetyl-b-D-cellobiosyl azide**

• 2,3,6-Tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranosyl azide

[33012-50-9] C<sub>26</sub>H<sub>35</sub>N<sub>3</sub>O<sub>17</sub> 661.6

OH04369

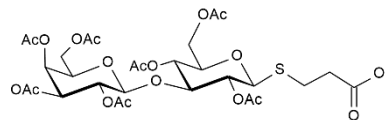
500mg \$160.00  
1g \$273.00  
2g \$420.00

**3-(Hepta-O-acetyl-b-lactopyranosyl)thio-propanoic acid**

[152435-15-9] C<sub>29</sub>H<sub>40</sub>O<sub>19</sub>S 724.69

OH04347

Price On Application

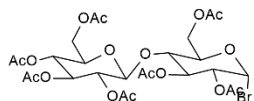
**2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-cellobiosyl bromide**

• Acetobromo-D-cellobiose

[14227-66-8] C<sub>26</sub>H<sub>35</sub>BrO<sub>17</sub> 699.45

OH04128

2g \$75.00  
5g \$125.00  
10g \$195.00



Refs: Hou Z, Liang L, Chin. Lett. 2003, Vol14, No3, p229-232

**2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-cellobiosyl fluoride**

• Peracetylated cellobiosyl fluoride

[14227-64-6] C<sub>26</sub>H<sub>35</sub>FO<sub>17</sub> 638.54

OH72063

Price On Application

**Hepta-N-acetylchitoheptaose**

see *N,N',N'',N''',N''',N''''-Heptaacetylchitoheptaose*, OH153454 on page 145

**N,N',N'',N''',N''',N''''-Heptaacetylchitoheptaose**

• Hepta-N-acetylchitoheptaose

[79127-58-5] C<sub>56</sub>H<sub>93</sub>N<sub>7</sub>O<sub>36</sub> 1440.36

OH153454

Price On Application

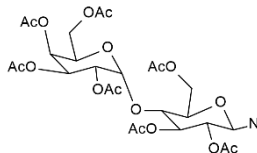
**2,3,6,2',3',4',6'-Hepta-O-acetyl-b-lactosyl azide**

• b-Lactosyl azide heptaacetate  
• 2,3,6-Tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-b-D-glucopyranosyl azide

[30854-62-7] C<sub>26</sub>H<sub>35</sub>N<sub>3</sub>O<sub>17</sub> 661.57

OH06632

2mg \$60.00  
5mg \$120.00  
10mg \$210.00



Refs: Blanco JLL, Barria CS, Benito JM, Mellet CO, Fuentes J, Santoyo-González F, Fernández JMG, Synthesis 1999, No11, p1907-1914

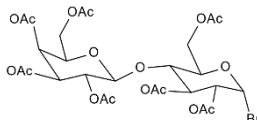
**2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-lactosyl bromide**

• Acetobromo-a-D-lactoside

[4753-07-5] C<sub>26</sub>H<sub>35</sub>BrO<sub>17</sub> 699.45

OH11281

2g \$50.00  
5g \$105.00  
10g \$190.00

**2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-lactosyl fluoride**

• Peracetylated lactosyl fluoride  
• 4-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-2,3,6-tri-O-acetyl-a-D-glucopyranosyl fluoride

[14227-57-7] C<sub>26</sub>H<sub>35</sub>FO<sub>17</sub> 638.54

OH72061

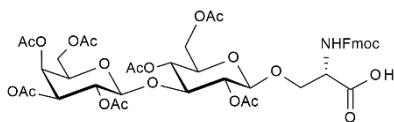
Price On Application



**HeptaacetylIL****Hepta-O-acetyl-b-Lactosyl-N-Fmoc-L-serine**[169275-84-7] C<sub>44</sub>H<sub>51</sub>NO<sub>22</sub> 945.88

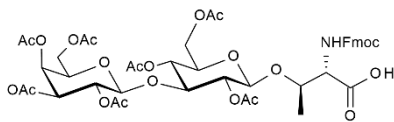
OH04265

Price On Application

**Hepta-O-acetyl-b-Lactosyl-N-Fmoc-L-threonine**[657395-98-7] C<sub>45</sub>H<sub>53</sub>NO<sub>22</sub> 959.9

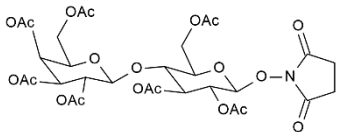
OH04254

Price On Application

**O-(2,2',3,3',4',6,6'-Hepta-O-acetyl-b-D-lactosyl)-N-hydroxysuccinimide**C<sub>30</sub>H<sub>39</sub>NO<sub>20</sub> 733.64

OH08978

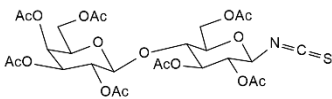
Price On Application

**2,3,6,2',3',4',6'-Hepta-O-acetyl-b-D-lactosyl isothiocyanate**[77489-36-2] C<sub>27</sub>H<sub>35</sub>NO<sub>17</sub>S 677.64

OH08620

10g

\$1950.00

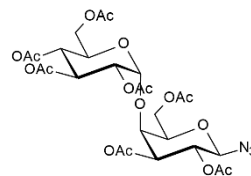
**2,3,6,2',3',4',6'-Hepta-O-acetyl-b-maltosyl azide**

• b-Maltosyl azide heptaacetate

[33012-49-6] C<sub>26</sub>H<sub>35</sub>N<sub>3</sub>O<sub>17</sub> 661.57

OH06700

500mg	\$80.00
1g	\$136.50
2g	\$210.00



Refs: Miyake H, Otsuka C, Nishimura S, Nitta Y, J. Biochem. 2002, Vol131, p587-591

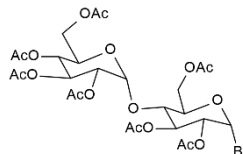
**2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-maltosyl bromide**

• Acetobromomaltose

[14257-35-3] C<sub>26</sub>H<sub>35</sub>BrO<sub>17</sub> 699.45

OH03492

5g	\$95.00
10g	\$175.00
25g	\$325.00

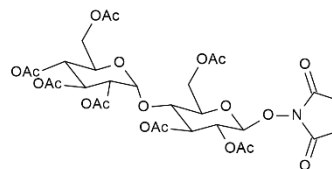


Refs: Alberti A, Bertini S, Comoli M, et al, Tetrahedron 2000, 56, 34, p6291

**2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-maltosyl bromide**see *D-Cellotriose undecaacetate*, OC04692 on page 60**O-(2,2',3,3',4',6,6'-Hepta-O-acetyl-b-D-maltosyl)-N-hydroxysuccinimide**C<sub>30</sub>H<sub>39</sub>NO<sub>20</sub> 733.64

OH08979

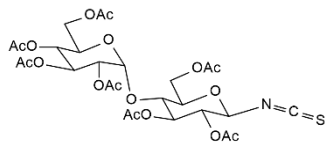
Price On Application



**2,3,6,2',3',4',6'-Hepta-O-acetyl- $\beta$ -D-maltosyl isothiocyanate**[81319-58-6] C<sub>27</sub>H<sub>38</sub>NO<sub>17</sub>S 677.64

OH08619

Price On Application

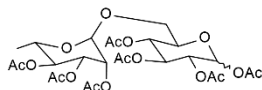
**Hepta-O-acetylrutinose**

• Rutinose peracetate

[29202-64-0] C<sub>26</sub>H<sub>36</sub>O<sub>17</sub> 620.57

OH07500

100mg	\$150.00
250mg	\$225.00
500mg	\$375.00

**1,2,3,6,2',3',6'-Hepta-O-acetyl-4'-O-(2,3,4,6-tetra-O-acetyl- $\alpha$ -D-galactopyranosyl)- $\beta$ -D-lactopyranoside**

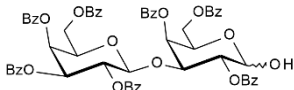
OH74812

Price On Application

**2,3,6,2',3',4',6'-Hepta-O-benzoyl-D-lactose**[578730-39-9] C<sub>61</sub>H<sub>50</sub>O<sub>18</sub> 1071.04

OH29233

Price On Application

**2,3,4,6,3',4',6'-Hepta-O-benzoylsucrose**• 2,3,4,6-Tetra-O-benzoyl- $\alpha$ -D-glucopyranosyl-(1-2)-3,4,6-tri-O-benzoyl- $\beta$ -D-fructopyranoside[309261-83-4] C<sub>61</sub>H<sub>50</sub>O<sub>18</sub> 1071.04

OH76250

1g	\$850.00
2g	\$1250.00
5g	\$1925.00

**Heptakis-(6-amino-6-deoxy)- $\beta$ -cyclodextrin heptahydrochloride**see 6-Amino-6-deoxy- $\beta$ -cyclodextrin hydrochloride, OA44672 on page 29**Heptakis-(6-aminomethyl-6-deoxy)- $\beta$ -cyclodextrin**see 6-Aminomethyl-6-deoxy- $\beta$ -cyclodextrin, OA44671 on page 30**Heptakis-(6-azido-6-deoxy)- $\beta$ -cyclodextrin**[53958-47-7] C<sub>42</sub>H<sub>63</sub>N<sub>21</sub>O<sub>28</sub> 1310.07

OA44670

1g	\$350.00
2g	\$500.00
5g	\$875.00

**Heptakis-(6-bromo-6-deoxy)- $\beta$ -cyclodextrin**see 6-Bromo-6-deoxy- $\beta$ -cyclodextrin, OB44674 on page 52**Heptakis-(6-O-tert-butylidimethylsilyl)- $\beta$ -cyclodextrin**see 6-Tert-butylidimethylsilyl- $\beta$ -cyclodextrin, OT44669 on page 267**Heptakis(6-O-tert-butylidimethylsilyl)- $\beta$ -cyclodextrin tetradecaacetate**

see Heptakis(2,3-di-O-acetyl-6-O-tert-butylidimethylsilyl)cyclomaltoheptaose, OH46499 on page 148

**Heptakis-(6-chloro-6-deoxy)- $\beta$ -cyclodextrin**see 6-Chloro-6-deoxy- $\beta$ -cyclodextrin, OC44673 on page 63**Heptakis-(6-cyano-6-deoxy)- $\beta$ -cyclodextrin**see 6-Cyano-6-deoxy- $\beta$ -cyclodextrin, OC44668 on page 67

**Heptakisdeox****Heptakis-(6-deoxy-6-iodo)-b-cyclodextrin**see *6-Deoxy-6-iodo-b-cyclodextrin*, OD44675 on page 73**Heptakis-(6-deoxy-6-mercapto)-b-cyclodextrin**see *6-Deoxy-6-thio-b-cyclodextrin*, OD44682 on page 74**Heptakis(2,3-di-O-acetyl-6-O-tert-butylidimethylsilyl)cyclomaltoheptaose**

- Silyl(6-O-tert-butylidimethyl)-2,3-di-acetyl)-b-cyclodextrin
- Heptakis(6-O-tert-butylidimethylsilyl)-b-cyclodextrin tetradecaacetate

[123172-94-1] C<sub>112</sub>H<sub>196</sub>O<sub>49</sub>Si<sub>7</sub> 2523.32

OH46499

100mg	\$150.00
250mg	\$250.00
500mg	\$450.00

**Heptakis-(2,3-di-O-acetyl)-b-cyclodextrin**see *2,3-Di-O-acetyl-b-cyclodextrin*, OD44676 on page 76**Heptakis-(2,3-di-O-allyl)-b-cyclodextrin**see *2,3-Di-O-allyl-b-cyclodextrin*, OD44677 on page 78**Heptakis-(2,3-di-O-benzyl)-b-cyclodextrin**see *2,3-Di-O-benzyl-b-cyclodextrin*, OD44678 on page 79**Heptakis-(2,6-di-O-tert-butylidimethylsilyl)-b-cyclodextrin**see *2,6-Di-O-tert-butylidimethylsilyl)-b-cyclodextrin*, OD44679 on page 79**Heptakis-(2,6-di-O-ethyl)-b-cyclodextrin**see *2,6-Diethyl-b-cyclodextrin*, OD44680 on page 81**Heptakis(2,3-di-O-methyl)-b-cyclodextrin**see *2,3-Dimethyl-b-cyclodextrin*, OH16462 on page 86**Heptakis(2,6-di-O-methyl)-b-cyclodextrin**see *2,6-Dimethyl-b-cyclodextrin*, OD29274 on page 86**Heptakis(2,6-di-O-methyl)-b-cyclodextrin**see *2,6-Dimethyl-b-cyclodextrin - Technical*, OD08100 on page 86**Heptakis-(2,3,6-tri-O-acetyl)-bCD**see *Tri-O-acetyl-b-cyclodextrin*, OT34433 on page 276**Heptakis-(2,3,6-tri-O-benzoyl)-b-cyclodextrin**see *Heptakis(2,3,6-tri-O-benzoyl)cyclomaltoheptaose*, OH46469 on page 148**Heptakis(2,3,6-tri-O-benzoyl)cyclomaltoheptaose**

- Heptakis-(2,3,6-tri-O-benzoyl)-b-cyclodextrin

[23666-43-5] C<sub>189</sub>H<sub>154</sub>O<sub>56</sub> 3321.21

OH46469

500mg	\$90.00
1g	\$145.00
2g	\$240.00

**Heptakis-(2,3,6-tri-O-ethyl)-b-cyclodextrin**see *Heptakis(2,3,6-tri-O-ethyl)cyclomaltoheptaose*, OT44681 on page 148**Heptakis(2,3,6-tri-O-ethyl)cyclomaltoheptaose**

- Heptakis-(2,3,6-tri-O-ethyl)-b-cyclodextrin

[111689-01-1] C<sub>84</sub>H<sub>154</sub>O<sub>35</sub> 1724.1

OT44681

5g	\$1125.00
10g	\$1800.00
25g	\$3500.00

**Heptakis-(2,3,6-tri-O-methyl)-γ-cyclodextrin**see *2,3,6-Trimethyl-gamma-cyclodextrin*, OT44718 on page 280**Heptakis(2,3,6-tri-O-methyl)cyclomaltoheptaose**

- Heneicosa-O-methyl-b-cyclodextrin

[55216-11-0] C<sub>63</sub>H<sub>112</sub>O<sub>35</sub> 1429.54

OH30169

1g	\$175.00
2g	\$325.00
5g	\$450.00

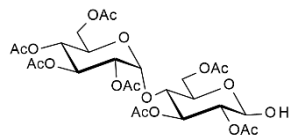




**2,3,6,2',3',4',6'-Hepta-O-acetyl-D-maltose**• 1,2,3-Tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\alpha$ -D-glucopyranosyl)-D-glucopyranose[56285-96-2] C<sub>26</sub>H<sub>36</sub>O<sub>18</sub> 636.55

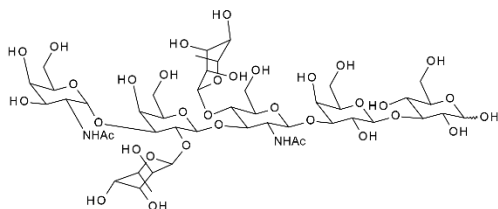
OH35403

1g	\$195.00
2g	\$300.00
5g	\$625.00

 **$\alpha$ -Heptasaccharide**[76472-96-3] C<sub>46</sub>H<sub>78</sub>N<sub>2</sub>O<sub>34</sub> 1203.13

OH03874

10ug	\$147.00
50ug	\$210.00
100ug	\$315.00

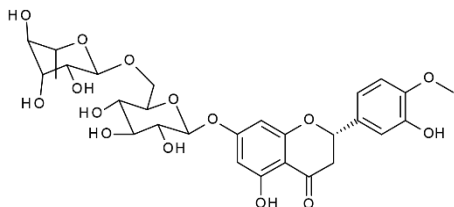
**Herbacetin 7-O- $\alpha$ -rhamnopyranoside**see *Rhodiol*, OR74552 on page 248**Hesperetin-7-rutinoside**see *Hesperidin*, OH08129 on page 149**Hesperidin**• 3',5,7-Trihydroxy-4'-methoxyflavanone-7-O-(6-O- $\alpha$ -L-rhamnopyranosyl)-b-D-glucopyranoside

- Hesperetin-7-rutinoside
- Cirmintin

[520-26-3] C<sub>28</sub>H<sub>34</sub>O<sub>15</sub> 610.56

OH08129

250g	\$65.00
500g	\$95.00
1kg	\$170.00



Refs: Chem. Ber, 1938, 71, p2511

**Hesperidin methylchalcone**• (E)-1-[4-[[6-O-(6-Deoxy- $\alpha$ -L-mannopyranosyl)-b-D-glucopyranosyl]oxy]-2-hydroxy-6-methoxyphenyl]-3-(3-hydroxy-4-methoxyphenyl)-2-propen-1-one[24292-52-2] C<sub>29</sub>H<sub>36</sub>O<sub>15</sub> 624.59

OH34622

50g	\$60.00
100g	\$100.00
250g	\$200.00

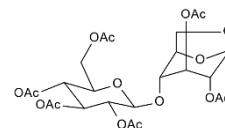
**2,3,2',3',4',6'-Hexa-O-acetyl-1,6-anhydro-b-D-cellobiose**

• 1,6-Anhydro-b-D-cellobiose hexaacetate

[38631-27-5] C<sub>24</sub>H<sub>32</sub>O<sub>16</sub> 576.5

OH08980

1g	\$75.00
2g	\$130.00
5g	\$220.00

**2,3,2',3',4',6'-Hexa-O-acetyl-1,6-anhydro-b-D-maltose**

• Maltosan hexaacetate

• 1,6-Anhydro-2,3-di-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\alpha$ -D-glucopyranosyl)-b-D-glucopyranose[28868-67-9] C<sub>24</sub>H<sub>32</sub>O<sub>16</sub> 576.5

OH35390

250mg	\$92.50
500mg	\$150.00
1g	\$225.00

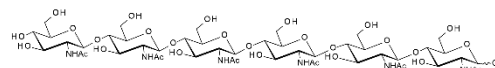
**Hexa-N-acetylchitohexaose**see *N,N',N'',N''',N''''-Hexaacetylchitohexaose*, OH07433 on page 149**N,N',N'',N''',N''''-Hexaacetylchitohexaose**

• Hexa-N-acetylchitohexaose

[38854-46-5] C<sub>46</sub>H<sub>80</sub>N<sub>6</sub>O<sub>31</sub> 1237.2

OH07433

1mg	\$65.00
2mg	\$110.00
5mg	\$195.00



Refs: Suzuki K, et.al, Carbohydrate Res, 1986, 151, p403

## Hexaacetylla

**3,6,2',3',4',6'-Hexa-O-acetyl-D-lactal**

see *3,6-Di-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-β-D-galactopyranosyl)-D-glucal*, OD06553 on page 78

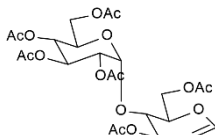
**Hexa-O-acetylmaltal**

• 1,5-Anhydro-2-deoxy-4-O-(2,3,4,6-tetra-O-acetyl-α-D-glucopyranosyl)-D-arabino-hex-1-enitol diacetate

[67314-34-5] C<sub>24</sub>H<sub>32</sub>O<sub>15</sub> 560.5

OH03730

500mg	\$125.00
1g	\$225.00
2g	\$390.00

**2,3,1',3',4',6'-Hexa-O-acetyl-6-O-methacryloyl-sucrose**

Price On Application

OH46828

**2,3,1',3',4',6'-Hexa-O-acetyl-sucrose**

[52706-47-5]

OH46826

5g	\$1475.00
10g	\$2250.00

**ΔHexA-b-1,3-GlcNAc-b-1,4-GlcA-b-1,3-GlcNAc**

see *Hyaluronic acid tetrasaccharide ammonium salt*, OH58159 on page 155

**Hexa-guluronic acid sodium salt**

[183437-50-5] C<sub>36</sub>H<sub>44</sub>O<sub>37</sub>Na<sub>6</sub> 1206.65

OH61664

2mg	\$80.00
5mg	\$150.00
10mg	\$250.00

**Hexakis-(6-O-acetyl)-a-cyclodextrin**

see *Monoacetyl-a-cyclodextrin*, OM44645 on page 221

**Hexakis-(6-amino-6-deoxy)-a-cyclodextrin hexahydrochloride**

see *6-Amino-6-deoxy-a-cyclodextrin hydrochloride*, OA44650 on page 29

**Hexakis-(6-aminomethyl-6-deoxy)-a-cyclodextrin**

see *6-Aminomethyl-6-deoxy-a-cyclodextrin*, OA44649 on page 30

**Hexakis-(6-azido-6-deoxy)-a-cyclodextrin**

• 6-Azido-6-deoxy-a-cyclodextrin

OH46506	100mg	\$65.00
	250mg	\$125.00
	500mg	\$200.00

**Hexakis-(6-bromo-6-deoxy)-a-cyclodextrin**

see *6-Bromo-6-deoxy-a-cyclodextrin*, OB44652 on page 52

**Hexakis-(6-O-tert-butyltrimethylsilyl)-a-cyclodextrin**

see *6-tert-Butyltrimethylsilyl-a-cyclodextrin*, OT44644 on page 53

**Hexakis-(6-cyano-6-deoxy)-alpha-cyclodextrin**

see *6-Cyano-6-deoxy-a-cyclodextrin*, OC44647 on page 67

**Hexakis-(6-deoxy)-a-cyclodextrin**

see *6-Deoxy-a-cyclodextrin*, OD44646 on page 71

**Hexakis-(6-deoxy-6-iodo)-a-cyclodextrin**

see *6-Deoxy-6-iodo-a-cyclodextrin*, OD44653 on page 73

**Hexakis-(6-deoxy-6-mercapto)-a-cyclodextrin**

see *6-Deoxy-6-thio-a-cyclodextrin*, OD44666 on page 74

**Hexakis-(2,3-di-O-acetyl)-a-cyclodextrin**

see *2,3-Di-O-acetyl-a-cyclodextrin*, OD44657 on page 76

**Hexakis-(3,6-di-O-acetyl)-a-cyclodextrin**

see *3,6-Di-O-acetyl-a-cyclodextrin*, OD44661 on page 77

H

**Hexakis-(2,3-di-O-allyl)-a-cyclodextrin**

see 2,3-Di-O-allyl-a-cyclodextrin, OD44655 on page 78

**Hexakis-(2,3-di-O-benzyl)-a-cyclodextrin**

see 2,3-Di-O-benzyl-a-cyclodextrin, OD44656 on page 79

**Hexakis-(2,3-di-O-methyl-6-O-tert-butylidimethylsilyl)-a-cyclodextrin**

see 2,3-Dimethyl-6-tert-butylidimethylsilyl-a-cyclodextrin, OD44664 on page 85

**Hexakis-(2,3-di-O-methyl)-a-cyclodextrin**

see 2,3-Dimethyl-a-cyclodextrin, OD44654 on page 85

**Hexakis-(2,6-di-O-methyl)-a-cyclodextrin**

see 2,6-Dimethyl-a-cyclodextrin, OD44659 on page 86

**Hexakis-(3,6-di-O-methyl)-a-cyclodextrin**

see 3,6-Dimethyl-a-cyclodextrin, OD44660 on page 87

**Hexakis (2,3,6-tri-O-acetyl)-a-cyclodextrin**

see a-Cyclodextrin octadecaacetate, OT35053 on page 68

**Hexakis-(2,3,6-tri-O-ethyl)-a-cyclodextrin**

see Triethyl-a-cyclodextrin, OT44663 on page 279

**Hexakis-(2,3,6-tri-O-methyl)-a-cyclodextrin**

see Hexakis(2,3,6-tri-O-methyl)cylomaltohexaose, OH44662 on page 151

**Hexakis(2,3,6-tri-O-methyl)cylomaltohexaose**

- Hexakis-(2,3,6-tri-O-methyl)-a-cyclodextrin
- Permethyl-a-cyclodextrin
- Octadeca-O-methyl-a-cyclodextrin

[68715-56-0] C<sub>54</sub>H<sub>96</sub>O<sub>30</sub> 1225.32

OH44662

250mg	\$150.00
500mg	\$225.00
1g	\$375.00

**Hexa-mannuronic acid sodium salt**C<sub>36</sub>H<sub>44</sub>O<sub>37</sub>Na<sub>6</sub> 1206.65

OH61660

2mg	\$80.00
5mg	\$150.00
10mg	\$250.00

**N-Hexanoyl-biotin-monosialoganglioside GM1**

see GM1-Ganglioside labelled by biotin, OG31354 on page 137

**Hexasaccharide dp6**C<sub>36</sub>H<sub>45</sub>N<sub>3</sub>O<sub>57</sub>S<sub>9</sub>(NH<sub>4</sub>)<sub>12</sub> 1936.78

OH58529

1mg	\$258.02
2mg	\$412.84

**HGC**

see (2-Hydroxypropyl)-gamma-cyclodextrin, OH11987 on page 156

**Hyaluronate biotin - Molecular Weight - 1000kDa**

OH143214

1mg	\$85.00
2mg	\$150.00
5mg	\$250.00

**Hyaluronate biotin - Molecular Weight - 10kDa**

OH143208

1mg	\$85.00
2mg	\$150.00
5mg	\$250.00



**Hyaluronateb****Hyaluronate biotin - Molecular Weight - 1500kDa**

OH143215	1mg	\$85.00
	2mg	\$150.00
	5mg	\$250.00

**Hyaluronate biotin - Molecular Weight - 50kDa**

OH143210	1mg	\$85.00
	2mg	\$150.00
	5mg	\$250.00

**Hyaluronate biotin - Molecular Weight - 20kDa**

OH143209	1mg	\$85.00
	2mg	\$150.00
	5mg	\$250.00

**Hyaluronate biotin - Molecular Weight - 750kDa**

OH143213	1mg	\$85.00
	2mg	\$150.00
	5mg	\$250.00

**Hyaluronate biotin - Molecular Weight - 2500kDa**

OH143216	1mg	\$85.00
	2mg	\$150.00
	5mg	\$250.00

**Hyaluronate fluorescein - Molecular Weight - 1000kDa**

OH143203	1mg	\$70.00
	2mg	\$120.00
	5mg	\$210.00

**Hyaluronate biotin - Molecular Weight - 250kDa**

OH143211	1mg	\$85.00
	2mg	\$150.00
	5mg	\$250.00

**Hyaluronate fluorescein - Molecular Weight - 10kDa**

OH143207	1mg	\$70.00
	2mg	\$120.00
	5mg	\$210.00

**Hyaluronate biotin - Molecular Weight - 500kDa**

OH143212	1mg	\$85.00
	2mg	\$150.00
	5mg	\$250.00

**Hyaluronate fluorescein - Molecular Weight - 1500kDa**

OH143204	1mg	\$70.00
	2mg	\$120.00
	5mg	\$210.00



**Hyaluronate fluorescein - Molecular Weight - 20kDa**

OH143202	1mg	\$70.00
	2mg	\$120.00
	5mg	\$210.00

**Hyaluronate rhodamine - Molecular Weight - 1000kDa**

OH143222	1mg	\$85.00
	2mg	\$150.00
	5mg	\$250.00

**Hyaluronate fluorescein - Molecular Weight - 2500kDa**

OH143205	1mg	\$70.00
	2mg	\$120.00
	5mg	\$210.00

**Hyaluronate rhodamine - Molecular Weight - 10kDa**

OH143217

Price On Application

**Hyaluronate fluorescein - Molecular Weight - 250kDa**

OH143200	1mg	\$70.00
	2mg	\$120.00
	5mg	\$210.00

**Hyaluronate rhodamine - Molecular Weight - 1500kDa**

OH143223	1mg	\$85.00
	2mg	\$150.00
	5mg	\$250.00

**Hyaluronate fluorescein - Molecular Weight - 500kDa**

OH143199	1mg	\$70.00
	2mg	\$120.00
	5mg	\$210.00

**Hyaluronate rhodamine - Molecular Weight - 20kDa**

OH143218

Price On Application

**Hyaluronate fluorescein - Molecular Weight - 50kDa**

OH143201	1mg	\$70.00
	2mg	\$120.00
	5mg	\$210.00

**Hyaluronate rhodamine - Molecular Weight - 2500kDa**

OH143224	1mg	\$85.00
	2mg	\$150.00
	5mg	\$250.00

**Hyaluronate octasaccharide**see *Hyaluronic acid octasaccharide ammonium salt, OH58158* on page 154

**Hyaluronater****Hyaluronate rhodamine - Molecular Weight - 250kDa**

OH143220

Price On Application

**Hyaluronate rhodamine - Molecular Weight - 500kDa**

OH143221

1mg	\$85.00
2mg	\$150.00
5mg	\$250.00

**Hyaluronate rhodamine - Molecular Weight - 50kDa**

OH143219

Price On Application

**Hyaluronate tetrasaccharide**see *Hyaluronic acid tetrasaccharide, OH44926* on page 155**Hyaluronic acid decamer**see *Hyaluronic acid decasaccharide, OH143206* on page 154**Hyaluronic acid decasaccharide**

• Hyaluronic acid decamer

C<sub>70</sub>H<sub>107</sub>N<sub>5</sub>O<sub>56</sub> 1914.6

OH143206

1mg	\$250.00
2mg	\$450.00
5mg	\$875.00

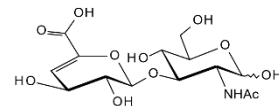
**Hyaluronic acid disaccharide sodium salt**

• di-HA sodium salt

[149368-06-9] C<sub>14</sub>H<sub>20</sub>NNaO<sub>11</sub> 401.3

OH11537

1mg	\$350.00
2mg	\$650.00
5mg	\$1375.00

**Hyaluronic acid hexasaccharide ammonium salt**

• Hyaluronic acid oligosaccharide dp6

[73603-40-4] C<sub>42</sub>H<sub>65</sub>N<sub>3</sub>O<sub>34</sub> 1155.97

OH58157

1mg	\$250.00
2mg	\$440.00
5mg	\$875.00

**Hyaluronic acid octasaccharide ammonium salt**

- Hyaluronic acid oligosaccharide dp8
- Hyaluronate octasaccharide

C<sub>56</sub>H<sub>86</sub>N<sub>4</sub>O<sub>45</sub> 1535.28

OH58158

1mg	\$250.00
2mg	\$440.00
5mg	\$750.00

**Hyaluronic acid oligosaccharide dp6**see *Hyaluronic acid hexasaccharide ammonium salt, OH58157* on page 154**Hyaluronic acid oligosaccharide dp8**see *Hyaluronic acid octasaccharide ammonium salt, OH58158* on page 154

**Hyaluronic acid tetrasaccharide**

• Hyaluronate tetrasaccharide

[57282-61-8] C<sub>28</sub>H<sub>44</sub>N<sub>2</sub>O<sub>23</sub> 776.65

OH44926

1mg	\$250.00
2mg	\$480.00
5mg	\$1075.00

**Hyaluronic acid tetrasaccharide ammonium salt**

• ΔHexA-b-1,3-GlcNAc-b-1,4-GlcA-b-1,3-GlcNAc

[634181-32-1] C<sub>28</sub>H<sub>42</sub>N<sub>2</sub>O<sub>22</sub>·xNH<sub>3</sub> 758.63 (free acid basis)

OH58159

1mg	\$225.00
2mg	\$390.00
5mg	\$750.00

**Hybrid N-Glycan**• Hybrid-type, bisected, N-linked glycan  
• M5A1B N-Glycan[84182-21-8] C<sub>62</sub>H<sub>104</sub>N<sub>4</sub>O<sub>46</sub> 1641.49

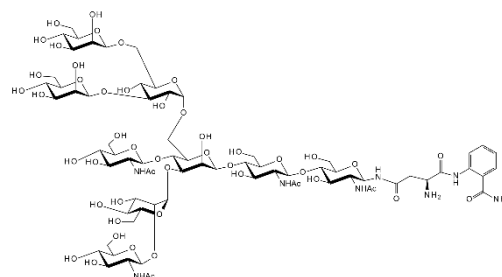
OH15859

10ug	\$500.00
20ug	\$730.00

**Hybrid Glycan, 2-AB labelled**

OH58593

Price On Application

**Hybrid-type, bisected, N-linked glycan**see *Hybrid N-Glycan, OH15859* on page 155**12b-Hydroxydigitoxin**see *Digoxin, OD01513* on page 84**2-[3,4-bis(2-Hydroxyethoxy)phenyl]-5-hydroxy-7-(2-hydroxyethoxy)-4-oxo-4H-chromen-3-yl 6-O-(6-deoxy-b-D-mannopyranosyl)-b-D-glucopyranoside**see *Troxerutin, OT15980* on page 281**(2-Hydroxyethyl)-b-cyclodextrin**

[128446-32-2]

OH34945

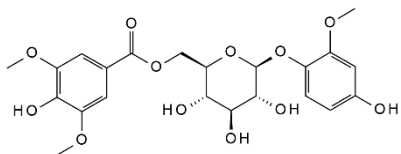
1g	\$65.00
2g	\$100.00
5g	\$195.00

**Hydroxy Ethyl Methyl Cellulose**see *Methyl 2-hydroxyethyl cellulose, OM30632* on page 216

**Hydroxymetho****4-Hydroxy-2-methoxyphenol 1-O-(6-O-syringoyl)glucoside**[945259-61-0] C<sub>22</sub>H<sub>26</sub>O<sub>12</sub> 482.43

OH44164

Price On Application

**(2-Hydroxypropyl)-a-cyclodextrin**

[128446-33-3] 1180

OH34949

Price On Application

**(2-Hydroxypropyl)-gamma-cyclodextrin**

• HGC

[128446-34-4]

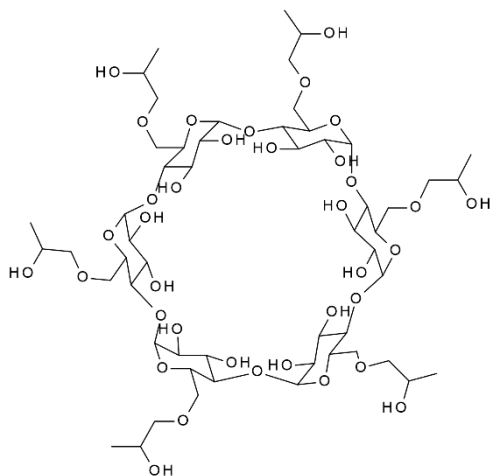
OH11987

5g	\$63.00
10g	\$105.00
25g	\$184.00

**3-Hydroxyphloridzin**see *Phloretin-3-hydroxy-2'-O-glucoside*, OP146388 on page 242**2-Hydroxypropyl-b-cyclodextrin**[128446-35-5][94035-02-6] C<sub>42</sub>(H)<sub>70-n</sub>O<sub>35</sub>(C<sub>3</sub>H<sub>7</sub>)<sub>n</sub>

OH05393

100g	\$55.00
250g	\$75.00
500g	\$125.00



Refs: Fatouros DG, Hatzidimitriou K, Antimisaris SG, Eur. J. Pharm. Sci. 2001, Jun 13(3), p287-96

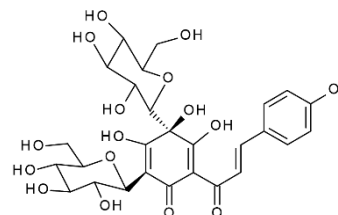
**Hydroxysaffron yellow A**

- 2,4-Di-b-D-glucopyranosyl-3,4,5-trihydroxy-6-[(2E)-3-(4-hydroxyphenyl-1-oxo-2-propen-1-yl)-2,5-cyclohexadien-1-one
- Safflorin A

[78281-02-4][146087-19-6] C<sub>27</sub>H<sub>32</sub>O<sub>16</sub> 612.54

OH08134

5mg	\$45.00
10mg	\$75.00
25mg	\$135.00



Refs: Chem. Letts. 1982, 3, p433

**i-Carradecaitoldecasulfate decasodium salt**C<sub>60</sub>H<sub>84</sub>O<sub>72</sub>S<sub>10</sub>Na<sub>10</sub> 2507.82

OC44616

Price On Application

**4-O-(a-L-Idopyranosyluronic acid 2-sulfate)-D-glucosamine 2,6-disulfate**see *Heparin derived disaccharide sodium salt*, OH04431 on page 141

H

**2-Hydroxypropyl-b-cyclodextrin - Rhodamine labelled**

OH29537

Price On Application





**myo-Inositol galactoside**see *Galactinol hydrate, OG07040* on page 101**Inulin dodecylcarbamate**see *Inulin lauryl carbamate - 25% in glycerol, OI146251* on page 157**Inulin lauryl carbamate - 25% in glycerol**

- Lauryl inulin carbamate
- Inulin dodecylcarbamate

[478483-27-1]

OI146251

10g  
25g  
50g\$50.00  
\$100.00  
\$150.00**Inulobiose**

- 1-O-b-D-Fructo-furanosyl-D-fructose
- Difrucan

[470-58-6] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OI64041

Price On Application

**Iota carrageen**

OI157269

Price On Application

**Iota-Cyclodextrin**

- Cyclomalotetradecaose

[156510-94-0] C<sub>84</sub>H<sub>140</sub>O<sub>70</sub> 2269.97

OC74845

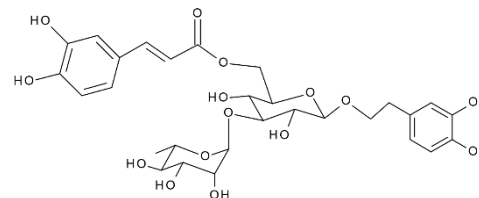
Price On Application

**Isoacteoside**

- 2-(3,4-Dihydroxyphenyl)ethyl 3-O-(6-deoxy- $\alpha$ -L-mannopyranosyl)-6-(3-(3,4-dihydroxyphenyl)-2-propenoate)- $\beta$ -D-glucopyranoside
- Isoverbascoside

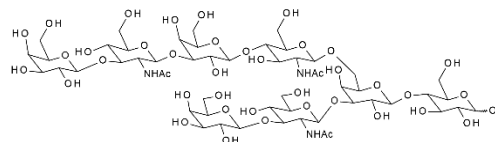
[61303-13-7] C<sub>29</sub>H<sub>36</sub>O<sub>15</sub> 624.59

OI08282

5mg \$85.00  
10mg \$130.00  
25mg \$250.00Refs: *Annali Chimica*, 1963, 53, p356**Isoglobotetraose**see *Globoisotetraose, OG157977* on page 124**Isoglobotriaose**see *Gala1-3Galb1-4Glc, OG44766* on page 110**iso-Lacto-N-neoactose**[67319-96-4] C<sub>54</sub>H<sub>91</sub>N<sub>3</sub>O<sub>41</sub> 1438.3

OL13721

Price On Application

**iso-Lacto-N-octaose**

1438.3

OL58466

Price On Application



**Isolactosami****Iso-lactosamine HCl**

• 2-Amino-2-deoxy-3-O-b-D-galactopyranosyl-D-glucose hydrochloride

[1442643-83-5] C<sub>12</sub>H<sub>23</sub>NO<sub>10</sub>·HCl 377.77

OI61725	10mg	\$100.00
	25mg	\$225.00
	50mg	\$400.00

**Isolanid**

see Lanatoside C, OL09899 on page 174

**Isoliquiritin apioside**[120926-46-7] C<sub>26</sub>H<sub>30</sub>O<sub>13</sub> 550.51

OI33286	1mg	\$69.00
	2mg	\$108.00
	5mg	\$215.00

**Isomalt**

• Palatinitol

[64519-82-0]

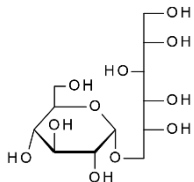
OI71952	500g	\$125.00
	1Kg	\$195.00
	2Kg	\$370.00

**Isomaltitol**

• 6-O-(a-D-Glucopyranosyl)-D-glucitol

[534-73-6] C<sub>12</sub>H<sub>24</sub>O<sub>11</sub> 344.31

OI05006	5mg	\$625.00
	10mg	\$1000.00
	25mg	\$2125.00

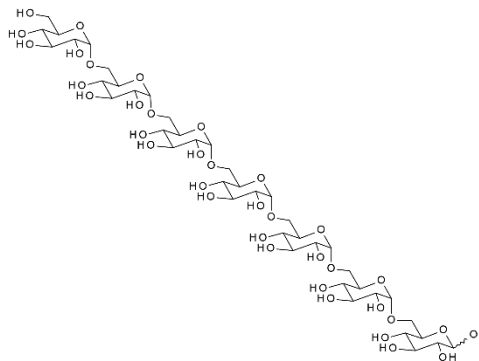


Refs: Gehring F, Z. Ernährungswiss Suppl. 1973, 15, 16-27

**Isomaltoheptaose**[6513-12-8] C<sub>42</sub>H<sub>72</sub>O<sub>36</sub> 1153

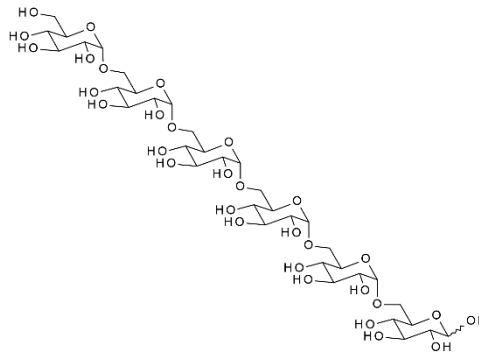
OI15393

500ug	\$175.00
1mg	\$295.00
2mg	\$520.00

**Isomaltohexaose**[6175-02-6] C<sub>36</sub>H<sub>62</sub>O<sub>31</sub> 990.9

OI15391

500ug	\$150.00
1mg	\$250.00
2mg	\$390.00

**Isomaltooligosaccharide**

OI05209

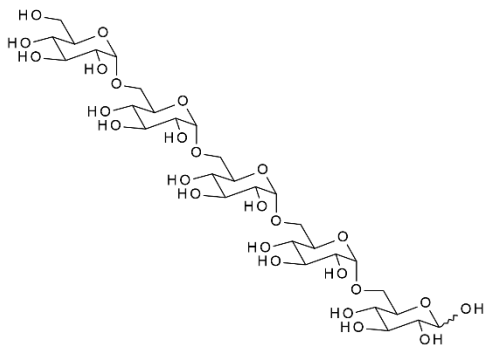
100mg	\$60.00
250mg	\$110.00
500mg	\$200.00



**Isomaltopentaose**[6082-32-2] C<sub>30</sub>H<sub>52</sub>O<sub>26</sub> 828.7

OI15390

500ug	\$65.00
1mg	\$115.00
2mg	\$210.00

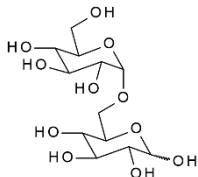
**Isomaltose**

• 6-O-(a-D-Glucopyranosyl)-D-glucopyranose

[499-40-1] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OI04560

100mg	\$75.00
200mg	\$130.00
500mg	\$225.00

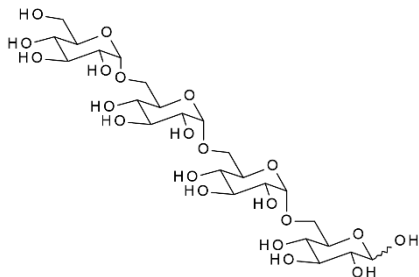


Refs: Zehavi U, Patchornik A, J. Am. Chem. Soc. 1973, p5673

**Isomaltotetraose**[35997-20-7] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

OI15392

5mg	\$70.00
10mg	\$120.00
25mg	\$235.00

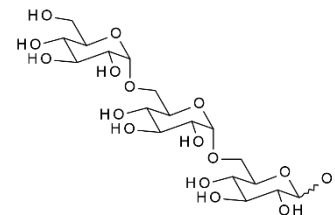
**Isomaltotriose**

• 6-O-[6-O-(a-D-Glucopyranosyl)-a-D-glucopyranosyl]-D-glucose

[3371-50-4] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OI05352

50mg	\$60.00
100mg	\$95.00
200mg	\$158.00

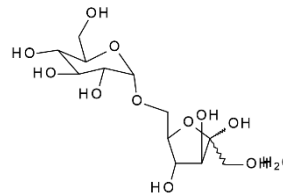


Refs: Larner J, J. Am. Chem. Soc. 1955, p6385

**Isomaltulose**• 6-O-(a-D-Glucopyranosyl)-D-fructose (monohydrate)  
• Palatinose[13718-94-0] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OI04225

500g	\$40.00
1kg	\$65.00
2kg	\$95.00



Refs: Huang JH, Hsu LH, Su YC, J. Ind. Microbiol. Biotechnol. 1998, Vol21, No1-2, p22-27

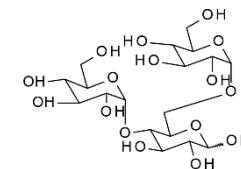
**Isopanose**

• 6-o-a-D-Glucosyl-maltose

[32581-33-2] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OI09775

2mg	\$90.00
5mg	\$165.00
10mg	\$295.00



**Isoprimevero****Isoprimeverose**• 6-O-( $\alpha$ -D-Xylopyranosyl)-D-glucose[534-98-5] C<sub>11</sub>H<sub>20</sub>O<sub>10</sub> 312.27

OI44482

10mg	\$95.00
25mg	\$175.00
50mg	\$290.00

**5,6-O-Isopropylidene-phlorigidoside B**

OI44160

Price On Application

**Isorebaudioside A**

• 13-[(2-O-b-D-Glucopyranosyl-3-O-b-D-glucopyranosyl-b-D-glucopyranosyl)-oxy]-kaur-15-en-18-oic acid b-D-glucopyranosyl ester

[1058600-85-3] C<sub>44</sub>H<sub>70</sub>O<sub>23</sub> 967.01

OI44879

1mg	\$250.00
2mg	\$370.00
5mg	\$625.00

**Isorhamnetin-3-O-neohesperidoside**see *Calendoflavoside*, OC33287 on page 53**Isorhamnetin-3-O-robinobioside**[53584-69-3] C<sub>28</sub>H<sub>32</sub>O<sub>16</sub> 624.54

OI106504

Price On Application

**Isorhoifolin**

• Apigenin-7-Rutinoside

[552-57-8] C<sub>27</sub>H<sub>30</sub>O<sub>14</sub> 578.52

OI65502

1mg	\$100.00
2mg	\$150.00
5mg	\$285.00

**Isoverbasoside**see *Isoacteoside*, OI08282 on page 157**Jujuboside A**

• (3b,16b,23R)-16,23:16,30-Diepoxy-20-hydroxydammar-24-en-3-ylO-6-deoxy-a-L-mannopyranosyl-(1&gt;2)-O-[O-b-D-glucopyranosyl-(1&gt;6)-O-[b-D-xylopyranosyl-(1&gt;2)]-b-D-glucopyranosyl-(1&gt;3)]-a-L-arabinopyranoside

[55466-04-1] C<sub>58</sub>H<sub>94</sub>O<sub>26</sub> 1207.37

OJ09904

5mg	\$90.00
10mg	\$150.00
25mg	\$225.00



Refs: J. Chem. Soc. Perkin Trans, 1981, 1, p1923

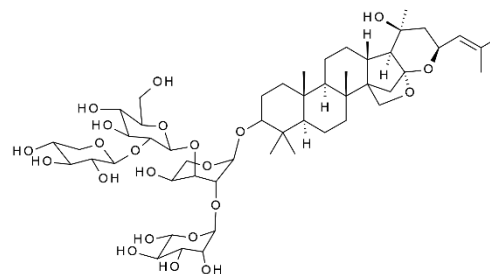
**Jujuboside B**

• (3b,16b,23R)-16,23:16,30-Diepoxy-20-hydroxydammar-24-en-3-ylO-6-deoxy-a-L-mannopyranosyl-(1&gt;2)-O-[O-b-D-xylopyranosyl-(1&gt;2)-b-D-glucopyranosyl-(1&gt;3)]-a-L-arabinopyranoside

[55466-05-2] C<sub>52</sub>H<sub>84</sub>O<sub>21</sub> 1045.21

OJ09905

5mg	\$65.00
10mg	\$110.00
25mg	\$195.00



Refs: Chem. Pharm. Bull, 1981, 29, p676



**Kaempferol 3-O-gentiobioside**

[22149-35-5]

OK74480

1mg	\$150.00
2mg	\$225.00
5mg	\$385.00

**Kaempferol-3-O-robinoside-7-O-rhamnoside**see *Robinin*, OR34983 on page 248**Kanamycin A Related Compound 1**[31077-71-1]  $C_{12}H_{25}N_3O_7$  323.34

OK57799

Price On Application

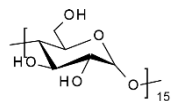
**kappa-Cyclodextrin**

• Cyclomaltopentadecaose

[156510-99-5]

OC74850

Price On Application

**k-Carradecaitolpentasulfate pentasodium salt** $C_{60}H_{89}O_{61}S_5Na_5$  2061.59

OC44621

Price On Application

**k-Carradiitol sulfate sodium salt** $C_{12}H_{21}O_{13}S_1Na$  428.34

OC44617

Price On Application

**k-Carraheptaose tetrasodium salt** $C_{42}H_{62}O_{45}S_4Na_4$  1507.14

OC44607

5mg	\$105.00
10mg	\$190.00
25mg	\$350.00

**k-Carrahexaitol trisulfate trisodium salt** $C_{38}H_{55}O_{37}S_3Na_3$  1244.97

OC44619

Price On Application

**k-Carranonaose pentasodium salt** $C_{54}H_{79}O_{57}S_5Na_5$  1915.45

OC44608

5mg	\$105.00
10mg	\$190.00
25mg	\$350.00

**k-Carraoctaitol tetrasulfate tetrasodium salt** $C_{48}H_{72}O_{49}S_4Na_4$  1653.28

OC44620

Price On Application



**KCarrapentao****k-Carrapentaose trisodium salt**C<sub>30</sub>H<sub>45</sub>O<sub>33</sub>S<sub>3</sub>Na<sub>3</sub> 1098.83

OC44606

5mg	\$125.00
10mg	\$210.00
25mg	\$400.00

**k-Carratetraitol disulfate disodium salt**C<sub>24</sub>H<sub>38</sub>O<sub>25</sub>S<sub>2</sub>Na<sub>2</sub> 836.66

OC44618

Price On Application

**k-Carratriose disodium salt**C<sub>18</sub>H<sub>28</sub>O<sub>21</sub>S<sub>2</sub>Na<sub>2</sub> 690.51

OC44605

5mg	\$95.00
10mg	\$170.00
25mg	\$300.00

**KDO-(α,2-4)-KDO-(α,2-6)-lipid A**see *Dl[3-deoxy-D-manno-octulosonyl]-lipid A sodium salt - 0.5mg/ml aqueous solution, OD29173 on page 80***KDO2-Lipid A**see *Dl[3-deoxy-D-manno-octulosonyl]-lipid A sodium salt - 0.5mg/ml aqueous solution, OD29173 on page 80***Keracyanin chloride**see *Cyanidin-3-O-rutinoside chloride, OC16172 on page 66***1,1,1,1,1-Kestoheptaose**see *Fructoheptasaccharide, OF59775 on page 96***1,1,1,1-Kestohexose**

• O-b-D-Fructofuranosyl-(2-1)-b-D-fructofuranosyl-(2-1)-b-D-fructofuranosyl-(2-1)-b-D-fructofuranosyl-(2-1)-b-D-fructofuranosyl-a-D-glucopyranose

[62512-19-0] C<sub>36</sub>H<sub>62</sub>O<sub>31</sub> 990.86

OK59466

2mg	\$90.00
5mg	\$200.00
10mg	\$355.00

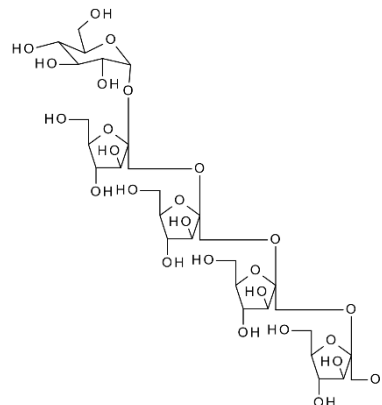
**1,1,1-Kestopentaose**

• O-b-D-Fructofuranosyl-(2-1)-b-D-fructofuranosyl-(2-1)-b-D-fructofuranosyl-(2-1)-b-D-fructofuranosyl-a-D-glucopyranose

[59432-60-9] C<sub>30</sub>H<sub>52</sub>O<sub>26</sub> 828.72

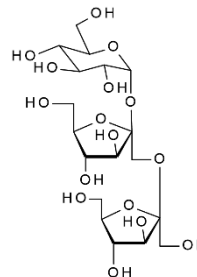
OK32473

5mg	\$65.00
10mg	\$90.00
20mg	\$160.00

**1-Kestose**[470-69-9] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OK07034

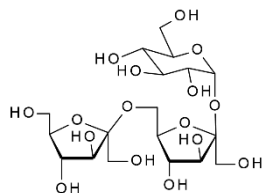
100mg	\$58.00
250mg	\$95.00
500mg	\$160.00



**6-Kestose**[562-68-5] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OK32520

Price On Application

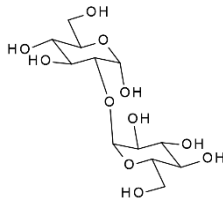
**Kojibiose**

- 2-O-(a-D-Glucopyranosyl)-a-D-glucopyranose
- Glc-a-1,2-Glc

[2140-29-6] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OK05039

250mg	\$75.00
500mg	\$125.00
1g	\$200.00

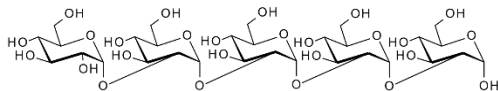


Refs: Wolfrom ML, Thompson A, Lineback DR, J. Org. Chem. 1963, Vol28, p860

**Kojipentaose**[112289-20-0] C<sub>30</sub>H<sub>52</sub>O<sub>26</sub> 828.72

OK31573

Price On Application

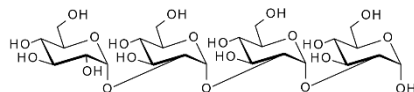
**Kojitetraose**

- Glca2Glc2Glc2Glc

[112302-52-0] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

OK31572

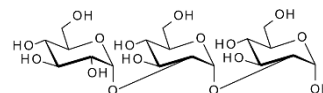
Price On Application

**Kojitriose**[74738-47-9] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OK31571

25mg

\$7000.00

**Kotalanol**

- 1,4-Dideoxy-1,4-[(S)-[7-deoxy-5-O-sulfo-D-glycero-D-galacto-heptitol-7-yl]episulfoniumylidene]-D-arabinitol inner salt

[214491-07-3] C<sub>12</sub>H<sub>24</sub>O<sub>12</sub>S<sub>2</sub> 424.44

OK146493

Price On Application

**LacdiNac**

- see 2-Acetamido-2-deoxy-4-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-D-glucopyranose, OA44637 on page 12

**LacDiNac dimer ethylazide**

- GalNAcb(1-4)GlcNAcb(1-3)GalNAcb(1-4)GlcNAcb-b-ethylazide

C<sub>34</sub>H<sub>57</sub>N<sub>7</sub>O<sub>21</sub> 899.85

OL44933

Price On Application

**LacDiNac MP Glycoside**

- see 4-Methoxyphenyl 4-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-2-acetamido-2-deoxy-b-D-glucopyranoside, OM59651 on page 200

**Lac-gly**

- see Glycyl-lactose, OG58508 on page 135

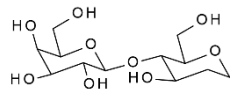
**LacMP 4'-OH, per OBn**

- see 4-Methoxyphenyl 4-O-(2,3,6-tri-O-benzyl-b-D-galactopyranosyl)-2,3,6-tri-O-benzyl-b-D-glucopyranoside, OG60617 on page 209

**LacNAc****LacNAc**see *N-Acetyl-D-lactosamine*, OA08244 on page 23**D-Lactal**[65207-55-8] C<sub>12</sub>H<sub>20</sub>O<sub>9</sub> 308.28

OL05670

25mg	\$84.00
50mg	\$136.50
100mg	\$210.00

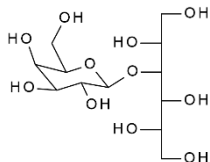
Refs: Danishefsky SJ, Koseki K, Griffith DA, Gervay J, et al, *J. Am. Chem. Soc.* 1992, Vol114, p8331-8333**Lactal hexaacetate**see *3,6-Di-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-β-D-galactopyranosyl)-D-glucal*, OD06553 on page 78**Lactitol anhydrous**

• 4-O-β-D-Galactopyranosyl-D-glucitol

[585-86-4] C<sub>12</sub>H<sub>24</sub>O<sub>11</sub> 344.31

OL09821

500mg	\$75.00
1g	\$120.00
2g	\$180.00

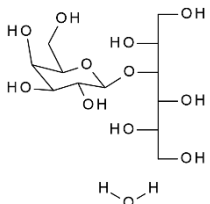
**Lactitol monohydrate**

• 4-O-(β-D-Galactopyranosyl)-D-glucitol monohydrate

[81025-04-9] C<sub>12</sub>H<sub>24</sub>O<sub>11</sub>·H<sub>2</sub>O 362.33

OL01305

5kg	\$85.00
10kg	\$150.00
20kg	\$252.00

Refs: van Velthuisen JA, *J. Agric. Food Chem.* 1979, Vol27, No4, p680**Lactobionate hydrazide**

OL46567

Price On Application

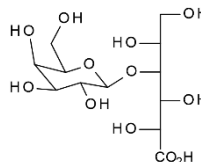
**Lactobionic acid**

• 4-O-β-D-Galactopyranosyl-D-gluconic acid

[96-82-2] C<sub>12</sub>H<sub>22</sub>O<sub>12</sub> 358.3

OL03220

100g	\$55.00
250g	\$80.00
500g	\$145.00

Refs: Satory M, Furlinger M, Haltrich D, Kulbe KD, et al, *Biotechnol. Lett.* 1997, Vol19, No12, p1205-1208**Lactobionic acid ethyl ester**

OL46565

Price On Application

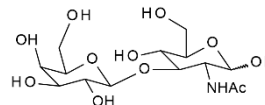
**Lacto-N-biose**

- Gal-β-1,3-GlcNAc
- 2-Acetamido-2-deoxy-3-O-(β-D-galactopyranosyl)-D-glucopyranose

[50787-09-2][489-52-1] C<sub>14</sub>H<sub>25</sub>NO<sub>11</sub> 383.35

OL01707

1mg	\$99.80
2mg	\$157.50
5mg	\$236.30

Refs: Watkins WM, Gottschalk A, *Glycoproteins* 1972, 830; Kuhlenschmidt TB, Lee YC, *Biochemistry* 1984, 23, 3569; Soulier S, Sarfati RS, Szabo L, *Euro. J. Biochem.* 1980, Vol108, No2, p465



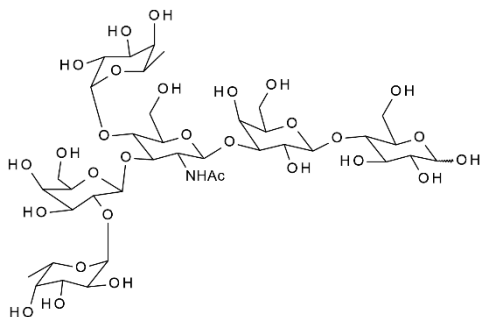
**Lacto-N-difucohexaose I**

• LNDFH I

[16789-38-1] C<sub>38</sub>H<sub>65</sub>NO<sub>29</sub> 999.91

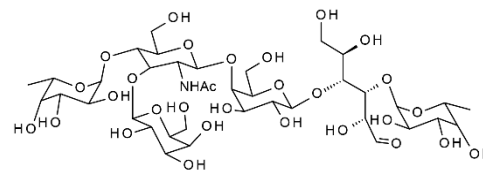
OL01664

1mg	\$99.80
2mg	\$160.00
5mg	\$350.00

**Lacto-N-difucohexaose II**• LNDFH II  
• Lewis A hexaose[62258-12-2] C<sub>38</sub>H<sub>65</sub>NO<sub>29</sub> 999.91

OL06826

1mg	\$165.00
2mg	\$220.00
5mg	\$350.00

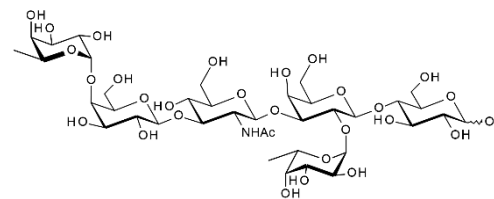
**Lacto-N-difucohexaose IV**

• LNDFH IV

C<sub>38</sub>H<sub>65</sub>NO<sub>29</sub> 999.91

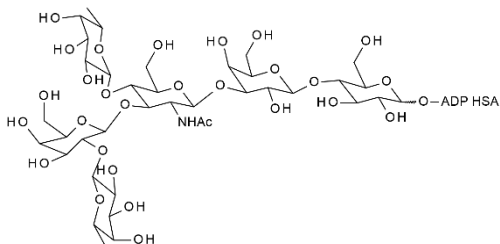
OL12186

100ug	\$189.00
-------	----------

**Lacto-N-difucohexaose I-APD-HSA**

OL03894

500ug	\$945.00
1mg	\$1785.00
2mg	\$3465.00

**Lacto-N-difucohexaose I-APD-KLH**

OL03914

Price On Application

**Lacto-N-difucohexaose I-BSA**

OL58569

0.5mg	\$325.00
1mg	\$550.00
2mg	\$900.00

**Lacto-N-difucopentaose I**

[221224-60-8]

OL03698

2mg	\$84.00
5mg	\$157.50
10mg	\$273.00

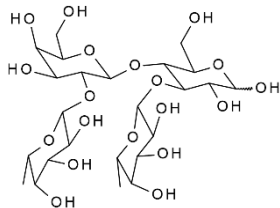


**Lactodifucot****Lactodifucotetraose**

- LDFT
- Difucosyl lactose

[20768-11-0] C<sub>24</sub>H<sub>42</sub>O<sub>19</sub> 634.58

OL06567	500ug	\$125.00
	1mg	\$195.00
	2mg	\$370.00



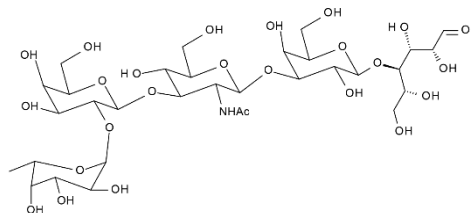
Refs: Chester MA, Hallgren P, Lundblad A, Messeter L, Eur. J. Biochem. 1979, Vol100, p385

**Lacto-N-fucopentaose I**

- Fuc-a-1,2-Gal-b-1,3-GlcNAc-b-1,3-Gal-b-1,4-Glc
- LNFP I

[7578-25-8] C<sub>32</sub>H<sub>55</sub>NO<sub>25</sub> 853.77

OL05676	1mg	\$50.00
	2mg	\$75.00
	5mg	\$103.00



Refs: Lindenberg S, et al, J. Reprod. Fert. 1988, 83, 149

**Lacto-N-fucopentaose I-BSA**

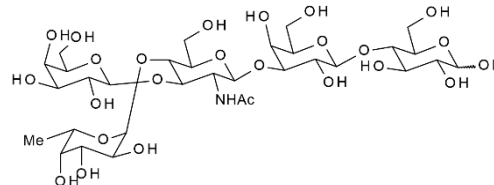
OL58570	0.5mg	\$425.00
	1mg	\$750.00
	2mg	\$1400.00

**Lacto-N-fucopentaose II**

- Lewis A antigen
- b-D-Gal-(1→3)-(a-L-Fuc-[1→4])-b-D-GlcNAc-(1→3)-b-D-Gal-(1→4)-D-Glc

[21973-23-9] C<sub>32</sub>H<sub>55</sub>NO<sub>25</sub> 853.77

OL03876	100ug	\$85.00
	250ug	\$150.00
	500ug	\$250.00



Refs: Bird J, Developmental Biology 1984, Aug, 104(2), 449-60

**Lacto-N-fucopentaose II-APD-HSA**

Price On Application

OL03893

**Lacto-N-fucopentaose II-APD-KLH**

Price On Application

OL03915

**Lacto-N-fucopentaose II-BSA**

OL58571	0.5mg	\$425.00
	1mg	\$750.00
	2mg	\$1450.00

**Lacto-N-fucopentaose II-GEL**

Price On Application

OL03799



L

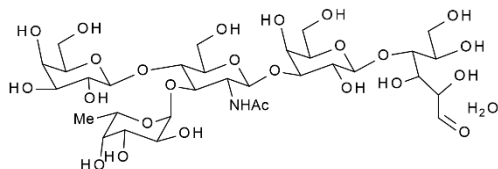
**Lacto-N-fucopentaose III**

- Lewis X antigen
- LNFIII
- Gal-b-1,4-(Fuc-a-1,3)-GlcNAc-b-1,3-D-Gal-b-1,4-Glc

[25541-09-7] C<sub>32</sub>H<sub>55</sub>NO<sub>25</sub>·H<sub>2</sub>O 871.79

OL04212

1mg \$985.00  
2mg \$1500.00  
5mg \$2500.00

**Lacto-N-fucopentaose III-APD-HSA**

OL06041

Price On Application

**Lacto-N-fucopentaose III-BSA**

OL58572

0.5mg \$500.00  
1mg \$850.00  
2mg \$1601.56

**Lacto-N-fucopentaose III-GEL**

OL05682

Price On Application

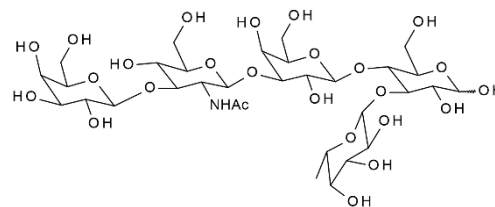
**Lacto-N-fucopentaose V**

- LNFPV

[60254-64-0] C<sub>32</sub>H<sub>55</sub>NO<sub>25</sub> 853.77

OL06817

25ug \$80.00  
50ug \$125.00  
100ug \$200.00



Refs: Ginsburg V, Zopf DA, Yamashita K, Kobata A, Arch. Biochem. and Biophys, 1976, 175, 2, p565

**Lacto-N-fucopentaose VI**[145876-86-4] C<sub>32</sub>H<sub>55</sub>NO<sub>25</sub> 853.77

OL58467

100ug \$175.00

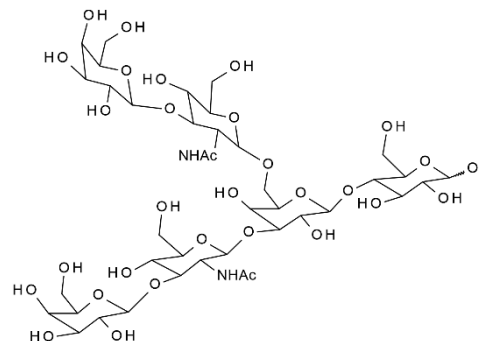
**Lacto-N-hexaose**

- LNH

[64003-51-6] C<sub>40</sub>H<sub>68</sub>N<sub>2</sub>O<sub>31</sub> 1072.96

OL02436

500ug \$550.00  
1mg \$965.00  
2mg \$1820.00



Refs: Coppa GV, Acta Paediatrica 1999, Issue 430, p89-94

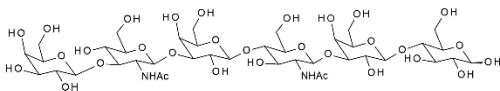
**Lactohexaose****p-Lacto-N-hexaose**

- Gal-b-1,3GlcNAc-b-1,3-Gal-b-1,4-GlcNAc-b-1,3-Gal-b-1,4-Glc
- pLNH

[64331-48-2] C<sub>40</sub>H<sub>68</sub>N<sub>2</sub>O<sub>31</sub> 1072.96

OL06839

1mg	\$275.00
2mg	\$450.00
5mg	\$625.00

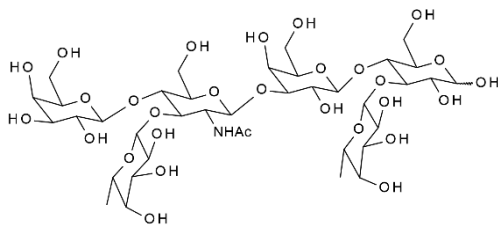
**Lacto-N-neodifucohexaose**

- Gal-b-1-4(Fuc-a-1-3)GlcNAc-b-1-3Gal-b-1-4(Fuc-a-1-3)Glc
- Lewis X hexaose

C<sub>38</sub>H<sub>65</sub>NO<sub>29</sub> 999.93

OL09844

500ug	\$220.00
1mg	\$300.00
2mg	\$440.00

**Lacto-N-neodifucohexaose 1**

see Lewis Y hexasaccharide, OL05050 on page 177

**Lacto-N-neodifucohexaose II**

999.91

OL58468

Price On Application

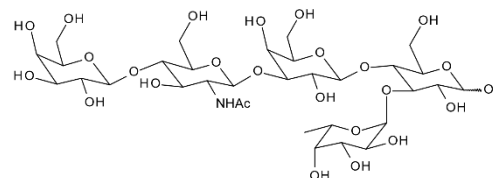
**Lacto-N-neofucopentaose**

- Gal-b-1-4-GlcNAc-b-1-3-Gal-b-1-4(Fuc-a-1-3)Glc

C<sub>32</sub>H<sub>55</sub>NO<sub>25</sub> 853.77

OL09903

1mg	\$200.00
2mg	\$285.00
5mg	\$575.00

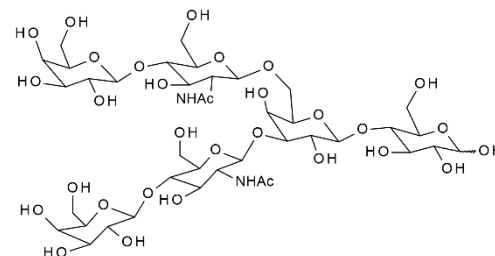
**Lacto-N-neohexaose**

- LNnh

[36824-93-8][64003-52-7] C<sub>40</sub>H<sub>68</sub>N<sub>2</sub>O<sub>31</sub> 1072.96

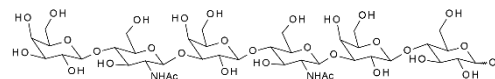
OL01680

1mg	\$225.00
2mg	\$430.00
5mg	\$1025.00

**p-Lacto-N-neohexaose**[64309-00-8] C<sub>40</sub>H<sub>68</sub>N<sub>2</sub>O<sub>31</sub> 1072.96

OL46818

250ug	\$65.00
500ug	\$110.00
1mg	\$169.00

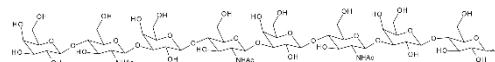
**Lacto-N-neooctaose**

- Gal-b-1-4-GlcNAc-b-1-3-Gal-b-1-4-GlcNAc-b-1-3-Gal-b-1-4-GlcNAc-b-1-3-Gal-b-1-4-Glc
- LNnO

C<sub>54</sub>H<sub>91</sub>N<sub>3</sub>O<sub>41</sub> 1438.3

OL09902

500ug	\$210.00
1mg	\$318.20
2mg	\$476.70



**Lacto-N-neotetraosa-APD-HSA**

OL06841

Price On Application

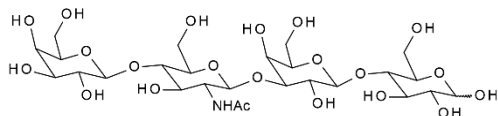
**Lacto-N-neotetraose**

• Gal-b-1,4-GlcNAc-b-1,3-Gal-b-1,4-Glc

[13007-32-4] C<sub>26</sub>H<sub>45</sub>NO<sub>21</sub> 707.63

OL05765

2mg	\$54.00
5mg	\$100.00
10mg	\$180.00



Refs: Yamada A, Hatano K, Koyama T, Matsuoka K, Esumi Y, Terunuma D, Carbohydr. Res, 2006, 341, 4, p467

**Lacto-N-neotetraose-GEL**

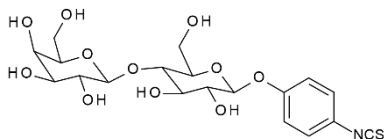
OL03809

Price On Application

**b-Lactopyranosyl phenylisothiocyanate**[96324-93-5] C<sub>19</sub>H<sub>25</sub>NO<sub>11</sub>S 475.47

OL09901

1mg	\$70.00
2mg	\$120.00
5mg	\$225.00



Refs: Biol. Cell, 1984, 51, p187

**Lactosamine**

see 4-O-(b-D-Galactopyranosyl)-D-glucosamine, OG12059 on page 105

**Lactosamine HCl**

see 4-O-(b-D-Galactopyranosyl)-D-glucosamine HCl, OG63076 on page 105

**Lactosan**

see 1,6-Anhydro-4-O-b-D-galactopyranosyl-b-D-glucopyranose, OA157483 on page 32

**b-Lactose - min 70% b-anomer**

• 4-O-(b-D-Galactopyranosyl)-b-D-glucopyranose

[5965-66-2] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OL15748

500g	\$75.00
1kg	\$125.00
2kg	\$200.00

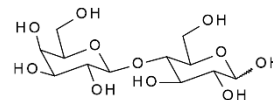
**Lactose - anhydrous**

• 4-O-b-D-Galactopyranosyl-D-glucopyranose

[63-42-3] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OL04771

500g	\$60.00
1kg	\$95.00
2kg	\$170.00



Refs: Hong JH, Shim MJ, Ro BO, Ko OH, J. Org. Chem. 2002, Vol67, (19), 6837-6840

**[12-C13]-Lactose**<sup>13</sup>C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O 372.22

OL57713

25mg	\$325.00
50mg	\$525.00
100mg	\$875.00

**Lactose 1-O-allyl**C<sub>15</sub>H<sub>26</sub>O<sub>11</sub> 382.36

OL46564

250mg	\$70.00
500mg	\$120.00
1g	\$195.00



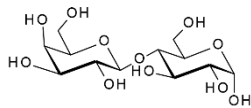
## Lactosemonoh

## a-Lactose monohydrate

• 4-O-b-D-Galactopyranosyl-a-D-glucopyranose monohydrate

[5989-81-1] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O 360.31

OL05009

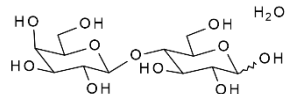
5kg \$100.00  
10kg \$180.00  
25kg \$406.25

Refs: Wong DY, Wright P, Aulton ME, Drug Dev. Ind. Pharm. 1988

## D-Lactose monohydrate

• 4-O-b-D-Galactopyranosyl-D-glucopyranose monohydrate  
• b-D-Gal-(1,4)-D-Glc[64044-51-5][10039-26-6][14641-93-1] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O 360.31

OL02402

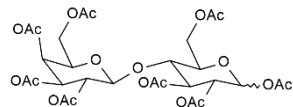
1Kg \$35.00  
2Kg \$60.00  
5kg \$95.00

Refs: Raghavan SL, Ristec RI, Sheen DB, Sherwood JN, J. Pharm Sci, 2001, 90, 7, p823

## Lactose octaacetate

• Octa-O-acetyl-D-lactose  
• 4-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-1,2,3,6-tetra-O-acetyl-D-glucopyranose[6291-42-5][23973-20-8] C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.59

OL02883

25g \$70.00  
50g \$125.00  
100g \$225.00

Refs: Hurd CD, Bonner WA, J. Am. Chem. Soc. 1945, Vol67, p1972

## Lactose octaisobutyrate

C<sub>44</sub>H<sub>70</sub>O<sub>19</sub> 903.02

OL76135

Price On Application



## Lactose-PAA-biotin

OL139178

1mg \$150.00  
2mg \$250.00

## a-D-Lactose 1-phosphate barium salt

[103404-65-5] C<sub>12</sub>H<sub>21</sub>O<sub>14</sub>P·Ba 557.59

OL46467

100mg \$5500.00

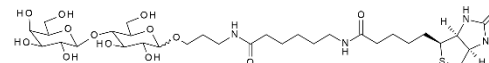


## Lactose-sp-biotin

C<sub>31</sub>H<sub>54</sub>N<sub>4</sub>O<sub>14</sub>S 738.85

OL44636

1mg \$250.00

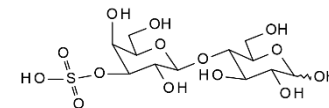


## Lactose 3'-sulfate

• 4-O-(3-O-Sulfo-b-D-galactopyranosyl)-D-glucopyranose

[159358-51-7] C<sub>12</sub>H<sub>22</sub>O<sub>14</sub>S 422.36

OL07231

1mg \$110.00  
2mg \$190.00  
5mg \$375.00

Refs: Bubb WA, Urashima T, Kohso K, Nakamura T, Arai I, Saito T, Carbohydr. res, 1999, 318, p123

## Lactose 6'-sulfate

[1015758-24-3]

OL14554

Price On Application



**Lactosucrose**

see 4-O-b-D-Galactosylsucrose, OG44854 on page 108

**b-Lactosyl azide**

see 1-Azido-1-deoxy-b-D-lactopyranoside, OA05079 on page 37

**b-Lactosyl azide heptaacetate**

see 2,3,6,2',3',4',6'-Hepta-O-acetyl-b-lactosyl azide, OH06632 on page 145

**Lactosylceramide**

- Ceramide b-lactoside
- Ceramide dihexoside (CDH)
- b-D-Galactosyl-(1-4)-D-glucosylceramide

[4682-48-8]

OL16325

1mg	\$99.80
2mg	\$157.50
5mg	\$315.00

**Lactosyl fluoride**[7792-96-3] C<sub>12</sub>H<sub>21</sub>FO<sub>10</sub> 344.29

OL72060

1g	\$110.00
2g	\$190.00
5g	\$375.00

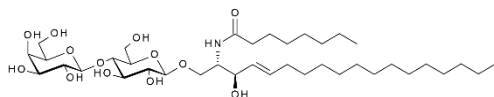
**Lactosyl-b-1,1'-N-octanoyl-L-threo-sphingosine**

- L-threo-Lactosyl-b-ceramide

[939036-94-9] C<sub>38</sub>H<sub>71</sub>NO<sub>13</sub> 749.97

OL29192

1mg	\$204.80
2mg	\$357.00
5mg	\$682.50

**1-b-Lactosyl-sphing-4-enine**

see Lactosylsphingosine, OL16328 on page 171

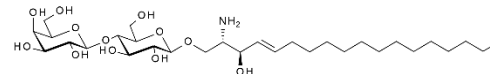
**Lactosylsphingosine**

- lyso-Lactosylceramide
- 1-b-Lactosyl-sphing-4-enine

[109785-20-8] C<sub>30</sub>H<sub>57</sub>NO<sub>12</sub> 623.77

OL16328

1mg	\$150.00
2mg	\$250.00
5mg	\$525.00

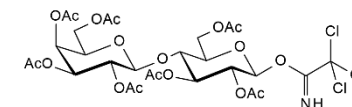
**b-D-Lactosyltrichloroacetimidate heptaacetate**

- 4-O-(2,3,4,6-Tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranose 2,3,6-triacetate 1-(2,2,2-trichloroethanimidate)

[1142022-76-1] C<sub>28</sub>H<sub>36</sub>Cl<sub>3</sub>NO<sub>18</sub> 780.94

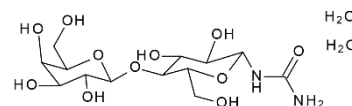
OL16464

100mg	\$84.00
250mg	\$157.50
500mg	\$290.00

**b-Lactosyl ureide dihydrate**C<sub>13</sub>H<sub>24</sub>N<sub>2</sub>O<sub>11</sub>·2H<sub>2</sub>O 420.37

OL07227

250mg	\$210.00
500mg	\$370.00
1g	\$630.00

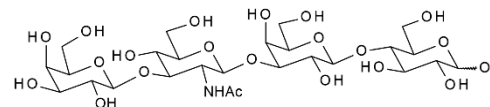
**Lacto-N-tetraose**

- Gal-b-1,3-GlcNAc-b-1,3-Gal-b-1,4-Glc
- LNT

[14116-68-8] C<sub>26</sub>H<sub>45</sub>NO<sub>21</sub> 707.63

OL05683

1mg	\$50.00
2mg	\$60.00
5mg	\$100.00



Refs: Kunz C, Rudloff S, Baier W, Klein N, Strobel S, Annu. Rev. Nutr. 2000, Vol20, 699-722

**Lactotetraos****Lacto-N-tetraose-a-APD-HSA**

OL03897

Price On Application

**Lacto-N-tetraose-APD-KLH**

OL00208

Price On Application

**Lacto-N-tetraose-BSA**

OL58402

1mg	\$649.22
2mg	\$1038.76
5mg	\$1662.00

**Lacto-N-tetraose-GEL**

OL03804

Price On Application

**Lacto-N-triose I**

• O-b-D-Galactopyranosyl-(1→3)-O-2-(acetylamino)-2-deoxy-b-D-glucopyranosyl-(1→4)-D-galactose

[19945-86-9] C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub> 545.49

OL157976

Price On Application

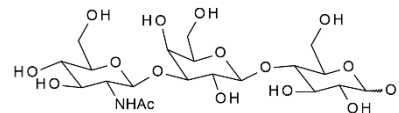
**Lacto-N-triose II**

• O-2-(Acetylamino)-2-deoxy-b-D-glucopyranosyl-(1→3)-O-b-D-galactopyranosyl-(1→4)-D-glucose

[75645-27-1] C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub> 545.49

OL09898

1mg	\$110.00
2mg	\$190.00
5mg	\$375.00

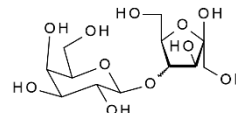
**Lactulose**

• 4-O-(b-D-Galactopyranosyl)-D-fructofuranose

[4618-18-2] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OL03995

50g	\$65.00
100g	\$110.00
250g	\$175.00

Refs: Holmes ML, et al, *Biochim. Biophys. Acta* 1997, 1337, 276; Fisher L, et al, *Appl. Environ. Microbiol.* 1995, 61, 1497**Lactulose - liquid**[4618-18-2] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OL01185

1g	\$50.00
2g	\$80.00
5g	\$175.00

**[12-C13]-Lactulose**<sup>13</sup>C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 354.21

OL57708

1mg	\$270.00
2mg	\$430.00
5mg	\$825.00





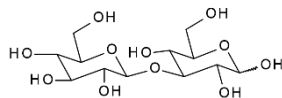
**Laminaribiose**

• 3-O-b-D-Glucopyranosyl-D-glucopyranose

[34980-39-7] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OL02452

10mg	\$55.00
25mg	\$90.00
50mg	\$155.00

**Laminaribiose octaacetate**

see 1,2,4,6-Tetra-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-a-D-glucopyranose, OT07230 on page 269

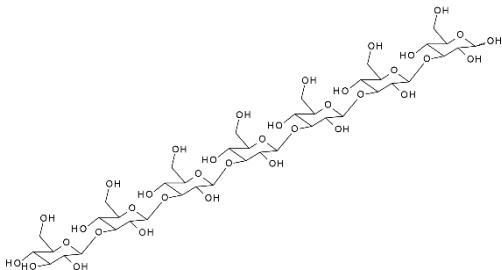
**Laminaribiose octaacetate**

see 1,2,4,6-Tetra-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-D-glucopyranose, OT04763 on page 269

**Laminariheptaose**[72627-90-8] C<sub>42</sub>H<sub>72</sub>O<sub>36</sub> 1153

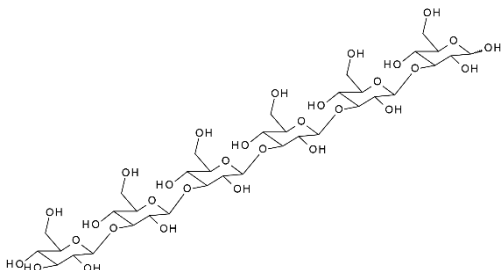
OL01708

1mg	\$195.00
2mg	\$360.00
5mg	\$700.00

**Laminarihexaose**[29842-30-6] C<sub>36</sub>H<sub>62</sub>O<sub>31</sub> 990.86

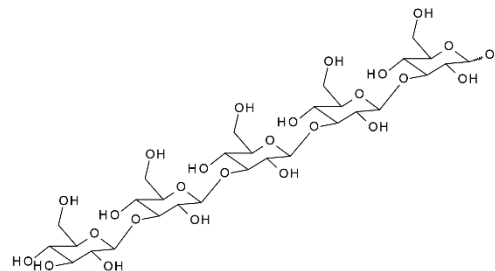
OL01710

1mg	\$47.30
2mg	\$73.50
5mg	\$120.80

**Laminaripentaose**[23743-55-7] C<sub>30</sub>H<sub>52</sub>O<sub>26</sub> 828.72

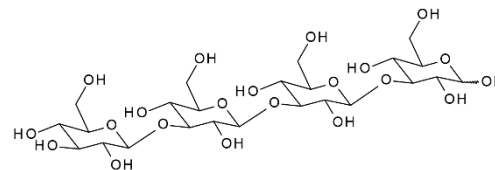
OL01703

1mg	\$47.30
2mg	\$73.50
5mg	\$120.80

**Laminaritetraose**[26212-72-6] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.6

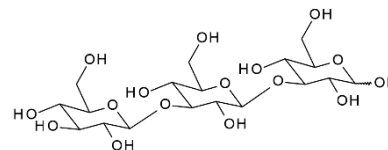
OL01700

1mg	\$47.30
2mg	\$73.50
5mg	\$120.80

**Laminaritriose**[3256-04-0] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OL01699

5mg	\$85.00
10mg	\$150.00
25mg	\$275.00

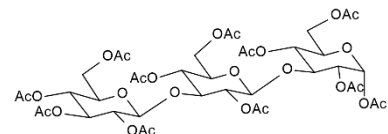
**Laminaritriose hendecaacetate**

• 1,2,4,6-Tetra-O-acetyl-3-O-[3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-2,4,6-tri-O-acetyl-b-D-glucopyranosyl]-a-D-glucopyranose

C<sub>40</sub>H<sub>54</sub>O<sub>27</sub> 966.84

OL46481

Price On Application



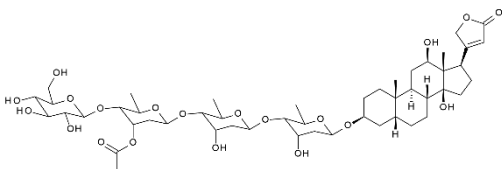
**Lanatoside****Lanatoside C**

• Isolanid

[17575-22-3] C<sub>49</sub>H<sub>76</sub>O<sub>20</sub> 985.12

OL09899

50mg	\$50.00
100mg	\$80.00
250mg	\$170.00

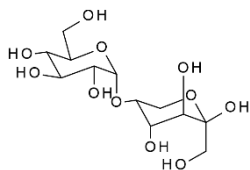
**LA-15-PP**see *Lipid A (E. Coli) triethylammonium salt*, OL58744 on page 179**Lauryl inulin carbamate**see *Inulin lauryl carbamate - 25% in glycerol*, OL146251 on page 157**LDFT**see *Lactodifucotetraose*, OL06567 on page 166**α-Le-heptasaccharide**see *Lewis A heptasaccharide*, OL07523 on page 174**D-Leucrose**

• 5-O-(α-D-Glucopyranosyl)-D-fructose

[7158-70-5][71205-61-3] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OL06727

25g	\$85.00
50g	\$135.00
100g	\$245.00

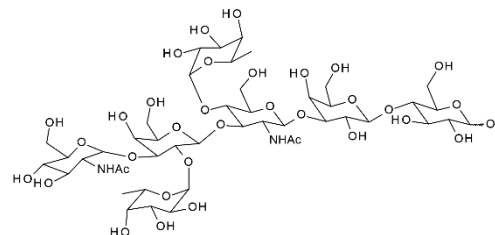


Refs: Anindiyawati T, Yamaguchi H, Furuichi K, Iizuka M, Minamiura N, Biosci. Biotechnol. Biochem. 1995, Nov, 59(11), 2146-8

**Lewis A antigen**see *Lacto-N-fucopentaose II*, OL03876 on page 166**Lewis A heptasaccharide**• GalNAc(a-1,2-Fuc)-a-1,3-Gal(a-1,4-Fuc)-b-1,3-GlcNAc-b-1,3-Gal-b-1,4-Glc  
• α-Le-heptasaccharide[76472-96-3] C<sub>46</sub>H<sub>78</sub>N<sub>2</sub>O<sub>34</sub> 1203.1

OL07523

20ug	\$189.00
50ug	\$378.00
100ug	\$735.00

**Lewis a heptasaccharide branched**see *Monofucosyl-lacto-N-hexaose II*, OM31771 on page 222**Lewis a heptasaccharide linear**see *Monofucosyl-para-lacto-N-hexaose II*, OM31772 on page 222**Lewis A hexaose**see *Lacto-N-difucohexaose II*, OL06826 on page 165**Lewis A-PAA-biotin**

OL45846

1mg \$280.00

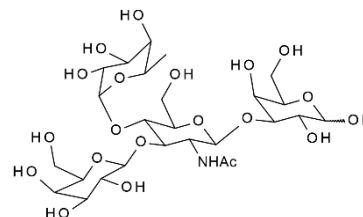
**Lewis A tetrasaccharide**

• Gal-b-1-3(Fuc-a-1-4)GlcNAc-b-1-3Gal

C<sub>26</sub>H<sub>45</sub>NO<sub>20</sub> 691.64

OL09843

5mg \$285.00



## Lewis A tetrasaccharide-BSA

OL58403	0.5mg	\$375.00
	1mg	\$650.00
	2mg	\$1250.00

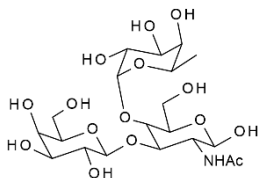


## Lewis A trisaccharide

- 2-Acetamido-2-deoxy-4-O-(a-L-fucopyranosyl)-3-O-(b-D-glucopyranosyl)-D-glucopyranose
- Gal-b-1,3(Fuc-a-1,4)GlcNAc

[56570-03-7] C<sub>20</sub>H<sub>35</sub>NO<sub>15</sub> 529.49

OL04541	1mg	\$95.00
	2mg	\$180.00
	5mg	\$425.00



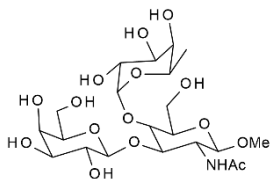
Refs: Dabelsteen E, et al, Cancer Res. 1988, 48, p181; Lasky LA, Science 1992, 258, p964; Mulligan MS, et al, Nature 1993, 364, p149; Travis J, Science 1993, 260, p906; Mulligan MS, et al, J. Exp. Med. 1993, 178, p623

## Lewis A trisaccharide methyl glycoside

- Methyl 2-acetamido-2-deoxy-4-O-(a-L-fucopyranosyl)-3-O-(b-D-galactopyranosyl)b-D-glucopyranoside

[186315-40-2] C<sub>21</sub>H<sub>37</sub>NO<sub>15</sub> 543.52

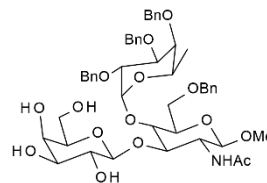
OL05746	500ug	\$135.00
	1mg	\$210.00
	2mg	\$378.00



Refs: Dabelsteen E, et al, Cancer Res. 1988, 48, p181; Lasky LA, Science 1992, 258, p964; Mulligan MS, et al, J. Exp. Med. 1993, 178, p623

## Lewis A trisaccharide methyl glycoside tetrabenzylether

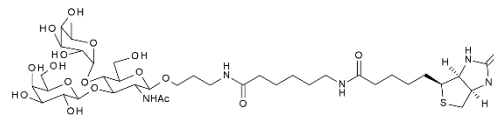
C <sub>49</sub> H <sub>61</sub> NO <sub>15</sub>	904.01		
OL06815	500ug	\$105.00	
	1mg	\$178.50	
	2mg	\$283.50	



Refs: Dabelsteen E, et al, Cancer Res. 1988, 48, p181; Lasky LA, Science 1992, 258, p964; Mulligan MS, et al, J. Exp. Med. 1993, 178, p623

## Lewis A trisaccharide-sp-biotin

[870891-35-3]	C <sub>39</sub> H <sub>67</sub> N <sub>5</sub> O <sub>18</sub> S	926.04	
OL31923	1mg	\$278.30	



## Lewis B hexasaccharide

OL46091	Price On Application
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## Lewis B hexasaccharide-sp-biotin

OL46164	1mg	\$750.00
	2mg	\$1380.00
	5mg	\$2500.00



## Lewis b octasaccharide branched

see *Difucosyllacto-N-hexaose (c)*, OD31778 on page 82

## Lewis b octasaccharide linear

see *Difucosyl-para-lacto-N-hexaose I*, OD31774 on page 82

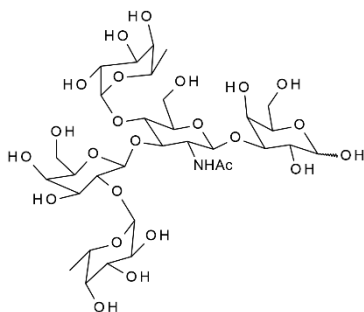
**LewisBpentas****Lewis B pentasaccharide**

• Fuca-2Galb-3(Fuca-4)GlcNAcb-3Gal

C<sub>32</sub>H<sub>55</sub>NO<sub>24</sub> 837.79

OL09570

Price On Application

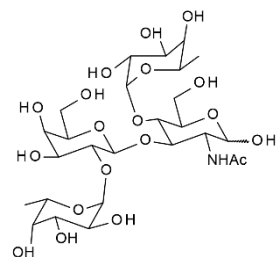
**Lewis B tetrasaccharide**

• Fuc-a-1,2-Gal-b-1,3-(Fuc-a-1,4)GlcNAc

[80081-06-7] C<sub>26</sub>H<sub>45</sub>NO<sub>19</sub> 675.63

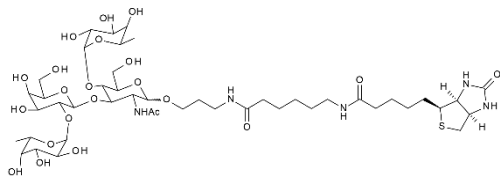
OL02434

1mg	\$99.80
2mg	\$190.00
5mg	\$425.00

**Lewis B tetrasaccharide-sp-biotin**• Fuc-a-1,2-Gal-b-1,3-(Fuc-a-1,4)GlcNAc-O(CH<sub>2</sub>)<sub>3</sub>NHCO(CH<sub>2</sub>)<sub>5</sub>NH-biotin[870891-31-9] C<sub>45</sub>H<sub>77</sub>N<sub>5</sub>O<sub>22</sub>S 1072.18

OL31036

1mg	\$414.80
2mg	\$808.50
5mg	\$1942.50

**Lewis c heptasaccharide branched**see *Monofucosyllacto-N-hexaose I*, OM12189 on page 222**Lewis c heptasaccharide linear**see *Monofucosyl-para-lacto-N-hexaose I*, OM05902 on page 222**Lewis X antigen**see *Lacto-N-fucopentaose III*, OL04212 on page 167**Lewis X hexaose**see *Lacto-N-neodifucohexaose*, OL09844 on page 168**Lewis X-PAA-biotin**

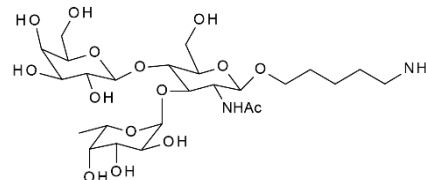
OL45847

1mg \$280.00

**Lewis X 1-O-n-pentylamine**[1159604-40-6] C<sub>25</sub>H<sub>46</sub>N<sub>2</sub>O<sub>15</sub> 614.64

OL12913

5mg \$7350.00

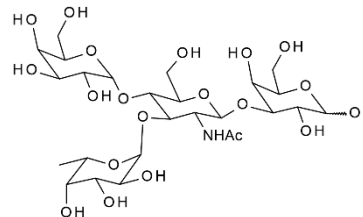
**Lewis X tetrasaccharide**

• Gala-4(fuca-3)GlcNAcb-3Gal

C<sub>26</sub>H<sub>45</sub>NO<sub>20</sub> 691.64

OL09569

1mg	\$90.00
2mg	\$150.00
5mg	\$285.00



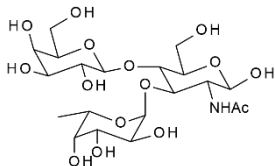
## Lewis X trisaccharide

- Gal-b-1,4(Fuc-a-1,3)GlcNAc
- 2-Acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-4-O-(b-D-galactopyranosyl)-D-glucopyranoside

[71208-06-5] C<sub>20</sub>H<sub>35</sub>NO<sub>15</sub> 529.49

OL06490

1mg	\$99.80
2mg	\$189.00
5mg	\$420.00



Refs: Travis J, Science 1993, 260, p906; Lasky LA, Science 1992, 258, p964

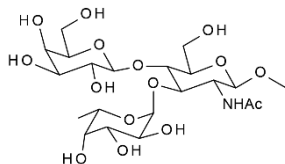
## Lewis X trisaccharide methyl glucoside

- Methyl 2-acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside
- Gal-b-1,4(Fuc-a-1,3)GlcNAc-b-Ome

[176106-81-3] C<sub>21</sub>H<sub>37</sub>NO<sub>15</sub> 543.52

OL04770

500ug	\$160.00
1mg	\$304.50
2mg	\$525.00



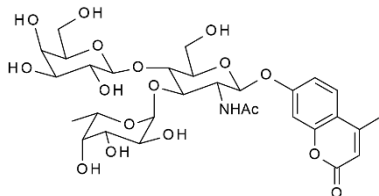
Refs: Lasky LA, Science 1992, 258, p964

## Lewis X trisaccharide 4-methylumbelliferyl glycoside

[359436-57-0] C<sub>30</sub>H<sub>41</sub>NO<sub>17</sub> 687.64

OL06836

500ug	\$185.00
1mg	\$315.00
2mg	\$588.00



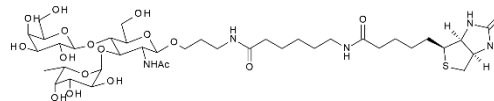
Refs: Mulligan MS, et al, J. Exp. Med. 1993, 178, p623

## Lewis X trisaccharide-sp-biotin

C<sub>39</sub>H<sub>67</sub>N<sub>5</sub>O<sub>18</sub>S 926.04

OL31924

1mg \$295.00



## Lewis Y-O-(CH2)8-biotin

OL16300

Price On Application



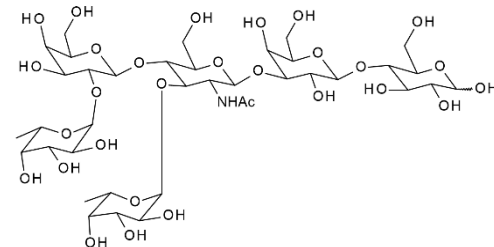
## Lewis Y hexasaccharide

- Lacto-N-neofucohexaose 1

[62469-99-2] C<sub>38</sub>H<sub>65</sub>NO<sub>29</sub> 999.91

OL05050

20ug	\$189.00
50ug	\$315.00
100ug	\$420.00

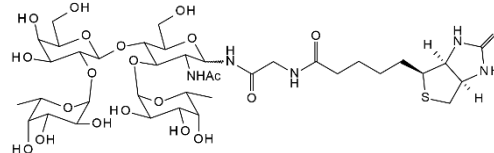


## Lewis Y-NHCOCH2NH-biotin

C<sub>38</sub>H<sub>63</sub>N<sub>5</sub>O<sub>21</sub>S 957.99

OL16299

Price On Application



## LewisYPAAbio

## Lewis Y-PAA-biotin

OL45848

1mg \$465.00

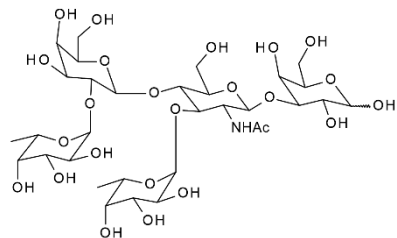


## Lewis Y pentasaccharide

• Fuca-2Galb-4(fuca-3)GlcNAcb-3Gal

C32H55NO24 837.79

OL09571

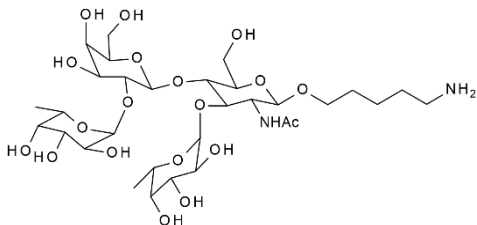
1mg \$110.00  
2mg \$170.00  
5mg \$350.00

## Lewis Y 1-O-n-pentylamine

C31H56N2O19 760.78

OL12914

Price On Application

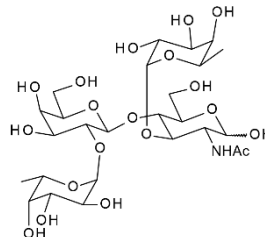


## Lewis Y tetrasaccharide

• 2-Acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-4-O-[2-O-(a-L-fucopyranosyl)-b-D-galactopyranosyl]-D-glucopyranoside  
• Fuc-a-1,2-Galb-1,4(Fuc-a-1,3)GlcNAc

[82993-43-9] C26H45NO19 675.64

OL06521

1mg \$210.00  
2mg \$360.00  
5mg \$650.00

Refs: Bekiroglu S, Kenne L, Sandström C, Carbohydr. Res, 2004, 339, 14, p2465



## Lewis Y tetrasaccharide-APE-HSA

OL00185

500ug \$830.00



## Lewis Y tetrasaccharide-BSA

OL58404

250ug \$315.00  
500ug \$500.00  
1mg \$800.00

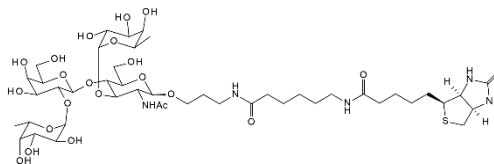
## Lewis Y tetrasaccharide-sp-biotin

• Fuc-a-1,2-Galb-1,4(Fuc-a-1,3)GlcNAc-O(CH2)3NHCO(CH2)5NH-biotin

[870891-90-0] C45H77N5O22S 1072.18

OL31034

1mg \$519.80



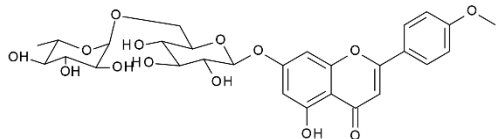
**Linarigenin glycoside**see *Linarin*, OL08109 on page 179**Linarin**

- Acacetin-7-O-b-D-rutinoside
- Buddleflavonolioside
- Linarigenin glycoside

[480-36-4] C<sub>28</sub>H<sub>33</sub>O<sub>14</sub> 593.55

OL08109

5mg	\$75.00
10mg	\$115.00
25mg	\$195.00

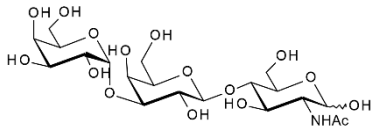
Refs: *Compt. Rend.*, 1907, 145, p331**Linear B-2 trisaccharide**

- Gal-a-1,3-Gal-b-1,4-GlcNAc
- Gallii antigen triaose
- Blood Group B type II linear trisaccharide

[101627-01-4][77356-46-8] C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub> 545.49

OL06495

1mg	\$126.00
2mg	\$210.00
5mg	\$446.30

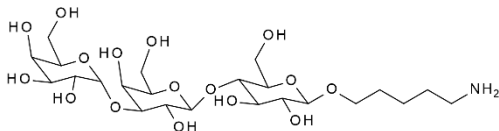
Refs: *Pazynina GV, Tyrtysh TV, Bovin NV, Mendelev Comm. 2002, No12, 143-145***Linear B-6 trisaccharide**see *Gala1-3Galb1-4Glc*, OG44766 on page 110**Linear B-6 trisaccharide 1-O-n-pentylamine**

- Gal-a-1,3-Gal-b-1,4Glc-b-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>

C<sub>23</sub>H<sub>43</sub>NO<sub>16</sub> 589.58

OL11431

1mg	\$420.00
2mg	\$735.00
5mg	\$1312.50

**Lipid A (E. Coli) triethylammonium salt**

- 2-Deoxy-6-O-[(2-deoxy-2-[(R)-3-(dodecanoyloxy) tetradecanoylamino]-3-O-[(R)-3-(tetradecanoyloxy) tetra decanoyl]-b-D-glucopyranosyl)-3-O-[(R)-3-hydroxy tetra decanoyl]-2-[(R)-3-hydroxy tetra decanoylamino]-a-D-glucopyranose 1,4'-diphosphate triethylammonium salt
- LA-15-PP

C<sub>94</sub>H<sub>178</sub>N<sub>2</sub>O<sub>25</sub>P<sub>2</sub> 1798.37

OL58744

0.1mg \$350.00

**Lipid IVa**

- Lipid A 406, LA-14-PP, Precursur 1a,
- 2-Deoxy-6-O-[(2-deoxy-3-O-[(R)-3-hydroxytetradecanoyl]-2-[(R)-3-hydroxytetradecanoylamino-b-D-glucopyranosyl)-3-O-[(R)-3-hydroxytetradecanoyl]-2-[(R)-3-hydroxytetradecanoylamino-a-D-glucopyranose 1,4'-diphosphate

[91841-27-9] C<sub>68</sub>H<sub>130</sub>N<sub>2</sub>O<sub>23</sub>P<sub>2</sub> 1405.7

OL09566

0.1mg	\$395.00
0.2mg	\$740.00
0.5mg	\$1625.00

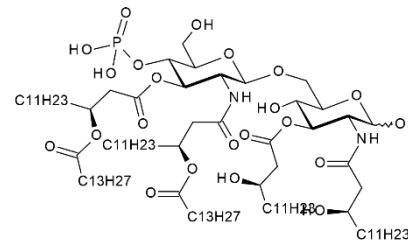
Refs: *Imoto M, Kusumoto S, Shiba T, Rietschel E Th, Galanos C, Luderitz O, tetrahedron Lett, 1985, 26, p907; Imoto M, Kusumoto S, Shiba T, Yoshimura H, Yamamoto M, Shimamoto T, Bull. Chem. Soc. Jpn, 1987, 60, p2197***Lipid A 406, LA-14-PP, Precursur 1a,**see *Lipid IVa*, OL09566 on page 179**Lipid A monophosphoryl**

- Monophosphoryl hexaacyl disaccharide
- Glycoperanoside Lipid A
- Monophosphoryl Lipid A

[1246298-63-4][960324-04-3] C<sub>96</sub>H<sub>181</sub>N<sub>2</sub>O<sub>22</sub>P 1746.44

OL29175

1mg	\$225.00
2mg	\$390.00
5mg	\$850.00



**LipidSalmone****Lipid A (Salmonella) triethylammonium**

• 2-Deoxy-6-O- [2-deoxy-2-[(R)-3- (dodecanoyloxy) tetradecanoylamino] -3-O- [(R)-3- (tetradecanoyloxy) tetradecanoyl]- b-d-glucopyranosyl] -3-O- [(R)-3-hydroxy tetradecanoyl]- 2-[(R)-3- (hexadecanoyloxy) tetra decanoylamino]- a- d-glucopyranose 1,4'-diphosphate

$C_{110}H_{208}N_2O_{26}P_2$  2036.77

OL58745 0.1mg \$350.00

**Lipopolysaccharide**

see Di[3-deoxy-D-manno-octulosonyl]-lipid A sodium salt - 0.5mg/ml aqueous solution, OD29173 on page 80

**Lipopolysaccharides - from Porphyromonas gingivalis**

• LPS-PG

OL29172 1mg \$350.00  
2mg \$650.00  
5mg \$1375.00

**Lipopolysaccharides (rough strains) - from Escherichia coli J5 (Rc mutant)**

OL29171 Price On Application

**Lividamine**

$C_{12}H_{25}N_3O_6$  307.34

OL46088 25mg \$3000.00

**LNDFH I**

see Lacto-N-difucohexaose I, OL01664 on page 165

**LNDFH II**

see Lacto-N-difucohexaose II, OL06826 on page 165

**LNDFH IV**

see Lacto-N-difucohexaose IV, OL12186 on page 165

**LNFIII**

see Lacto-N-fucopentaose III, OL04212 on page 167

**LNFP I**

see Lacto-N-fucopentaose I, OL05676 on page 166

**LNFPV**

see Lacto-N-fucopentaose V, OL06817 on page 167

**LNH**

see Lacto-N-hexaose, OL02436 on page 167

**LNnh**

see Lacto-N-neohexaose, OL01680 on page 168

**LNnO**

see Lacto-N-neooctaose, OL09902 on page 168

**LNT**

see Lacto-N-tetraose, OL05683 on page 171

**Lobatoside H**

see Tubeimoside, OT08921 on page 282

**LPS-PG**

see Lipopolysaccharides - from Porphyromonas gingivalis, OL29172 on page 180

**6-O-(a-LRhamnopyranosyl)-D-fructose**

see Rutinulose, OR32575 on page 249



**LS-Tetrasaccharide a**C<sub>37</sub>H<sub>62</sub>N<sub>2</sub>O<sub>29</sub> 998.88

OL58490

Price On Application

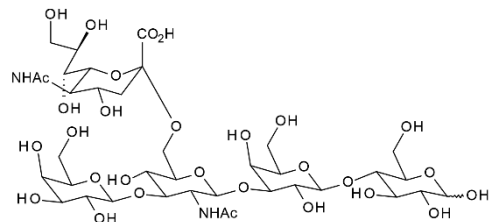
**LS-tetrasaccharide b**

- Sialyllacto-N-tetraose b
- a-NeuNAc-(2-6)-(b-D-Gal-[1-3])-b-D-GlcNAc-(1-3)-b-D-Gal-(1-4)-Glc
- N-Acetylneuraminylacto-N-tetraose b

[64003-54-9] C<sub>37</sub>H<sub>62</sub>N<sub>2</sub>O<sub>29</sub> 998.88

OL03877

500ug	\$425.00
1mg	\$650.00
2mg	\$1020.00

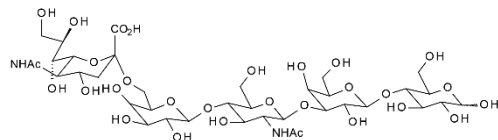
**LS-tetrasaccharide c**

- Sialyllacto-N-tetraose c
- a-NeuNAc-(2-6)-b-Gal-(1-4)-b-GlcNAc-(1-3)-b-Gal-(1-4)-Glc
- N-Acetylneuraminylacto-N-neo-tetraose c

[64003-55-0] C<sub>37</sub>H<sub>62</sub>N<sub>2</sub>O<sub>29</sub> 998.88

OL06570

500ug	\$185.00
1mg	\$275.00
2mg	\$520.00

**LS-Tetrasaccharide c-GEL**

OL03803

Price On Application

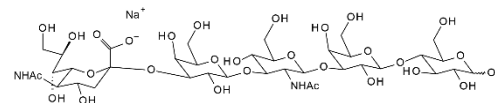
**LS-tetrasaccharide a sodium salt**

- N-Acetylneuraminylacto-N-tetraose a
- Sialyllacto-N-tetraose a

[64003-53-8] C<sub>37</sub>H<sub>61</sub>N<sub>2</sub>O<sub>29</sub>Na 1020.87

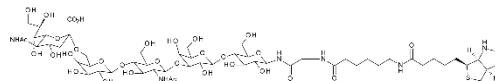
OL03882

500ug	\$160.00
1mg	\$294.00
2mg	\$535.50

**LS-tetrasaccharide C -sp-biotin**

OL46861

5mg \$4500.00

**Luteolin 5-glucoside**[20344-46-1] C<sub>21</sub>H<sub>20</sub>O<sub>11</sub> 448.38

OL159316

Price On Application

**Luteolin-7-O-neohesperidoside**

OL74353

Price On Application

**Lycopersin**see *Tomatine*, OT07656 on page 273**Lysoglobotriaosylceramide**see *Globotriaosylsphingosine*, OG44865 on page 125**lyso-Lactosylceramide**see *Lactosylsphingosine*, OL16328 on page 171

**LysoMonosial****lyso-Monosialoganglioside GM1**

see GM1-Lysoganglioside, OL44867 on page 137

**Madecassol**

see Asiaticoside, OA08294 on page 36

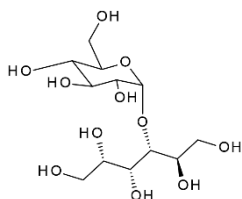
**Madecassoside**

see Asiaticoside A, OM08291 on page 36

**D-Maltitol**[585-88-6] C<sub>12</sub>H<sub>24</sub>O<sub>11</sub> 344.31

OM06867

1kg	\$65.00
2kg	\$110.00
5kg	\$205.00

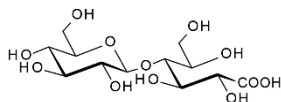
**Maltobionic acid**

• 4-O-α-D-Glucopyranosyl-D-gluconic acid

[534-42-9] C<sub>12</sub>H<sub>22</sub>O<sub>12</sub> 358.3

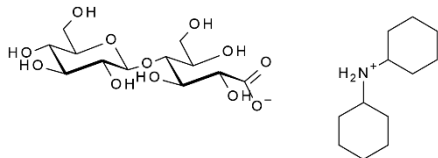
OM35454

50g	\$70.00
100g	\$120.00
250g	\$200.00

**Maltobionic acid dicyclohexylammonium salt**[41092-97-1] C<sub>24</sub>H<sub>46</sub>NO<sub>12</sub> 539.61

OM35502

Price On Application

**Maltodecaose**[37331-89-8] C<sub>60</sub>H<sub>102</sub>O<sub>51</sub> 1639.42

OM146832

1mg	\$65.00
2mg	\$100.00
5mg	\$195.00

**Maltodextrin - dextrose equivalent 10-15**

[9050-36-6]

OM146229

500g	\$75.00
------	---------

**Maltodextrin - dextrose equivalent 13.0-17.0**

[9050-36-6]

OM63247

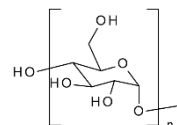
10g	\$75.00
500g	\$195.00
1Kg	\$350.00

**Maltodextrin - dextrose equivalent 16.5-19.5**

[9050-36-6]

OM11070

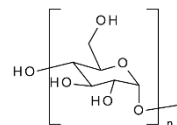
500g	\$50.00
1Kg	\$90.00
2Kg	\$150.00

**Maltodextrin - dextrose equivalent 4.0-7.0**

[9050-36-6]

OM00042

250g	\$55.00
500g	\$90.00
1kg	\$170.00



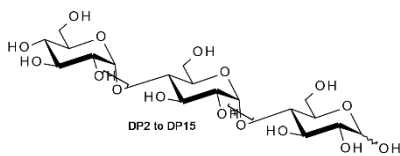
## Maltodextrin oligosaccharides - DP10 to DP40

OM76656	50mg	\$250.00
	100mg	\$390.00
	250mg	\$750.00



## Maltodextrin oligosaccharides - DP2 to DP15

OM10274	10mg	\$150.00
	25mg	\$225.00
	50mg	\$350.00



## Maltoeicosaose

OM29209

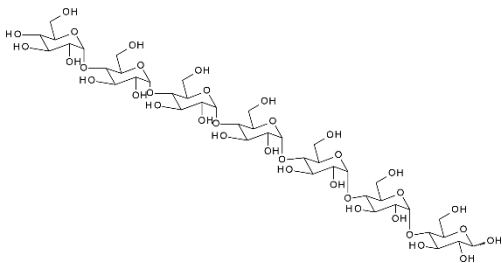
Price On Application



## Maltoheptaose

• Amyloheptaose

[34620-78-5][207511-07-7]	$C_{42}H_{72}O_{36}$	1153.02	
OM06868	100mg	\$75.00	
	250mg	\$130.00	
	500mg	\$225.00	



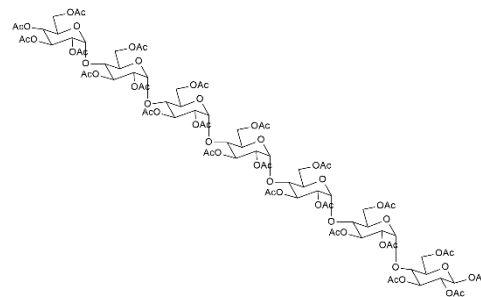
Refs: Yanga S-J, Leea H-S, Kima J-W, Leea M-H, Auha J-H, Leeb B-Hand, Parka K-H, Carbohyd. Res, 2006, 341, 3, p420



## Maltoheptaose tricosacetate

• Peracetyl maltoheptaose

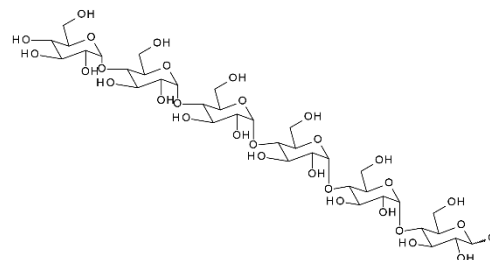
[114715-54-7]	$C_{88}H_{118}O_{59}$	2119.92	
OM06946	500mg	\$65.00	
	1g	\$110.00	
	2g	\$180.00	



Refs: Sakairi N, et.al, JCS, Perkin 1, 1995, p437

## Maltohexaose

[34620-77-4]	$C_{36}H_{62}O_{31}$	990.86	
OM06869	100mg	\$53.00	
	250mg	\$127.50	
	500mg	\$250.00	



Refs: Yanga S-J, Leea H-S, Kima J-W, Leea M-H, Auha J-H, Leeb B-Hand, Parka K-H, Carbohyd. Res, 2006, 341, 3, p420

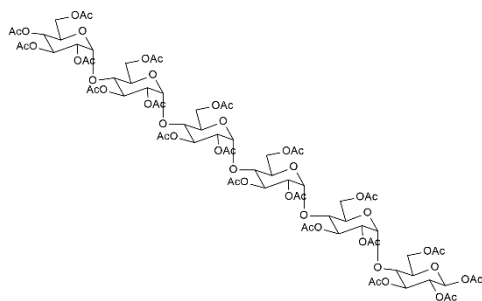
**Maltohexaose****Maltohexaose eicosaacetate**

• Peracetyl maltohexaose

[132244-72-5] C<sub>76</sub>H<sub>102</sub>O<sub>51</sub> 1831.59

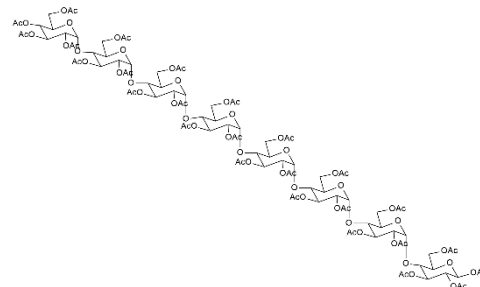
OM06944

1g	\$85.00
2g	\$157.00
5g	\$315.00

**Maltooctaose hexacosaacetate**[126971-67-3] C<sub>100</sub>H<sub>134</sub>O<sub>67</sub> 2408.09

OM06945

1g	\$115.50
2g	\$199.50
5g	\$367.50

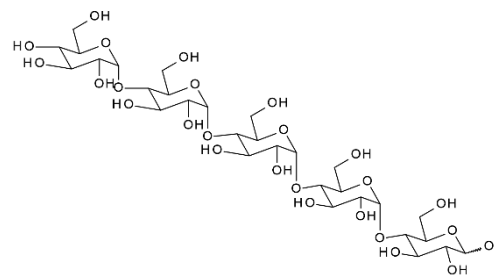


Refs: Uchida R, et al, Carbohyd. Res, 1996, 287, p271

**Maltopentaose**[34620-76-3][1668-09-3] C<sub>30</sub>H<sub>52</sub>O<sub>26</sub> 828.72

OM06872

25mg	\$65.00
50mg	\$100.00
100mg	\$175.00



Refs: Moates GK, Noel TR, Parker R, Ring SG, Cairns P, Morris VJ, Carbohyd. Res, 1997, 299, 1, p91

**Maltosan**

- 1,6-Anhydro-4-O- $\alpha$ -D-glucopyranosyl-b-D-glucopyranose
- 1,6-Anhydro-b-D-maltose

[6983-27-3] C<sub>12</sub>H<sub>20</sub>O<sub>10</sub> 324.28

OM16386

500mg	\$85.00
1g	\$155.00
2g	\$260.00

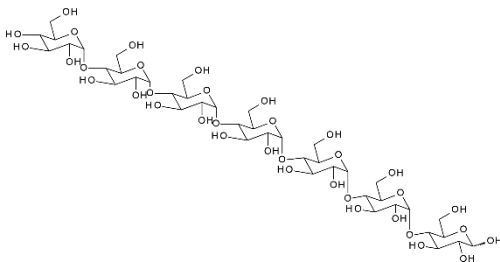
**Maltosan hexaacetate**

see 2,3,2',3',4',6'-Hexa-O-acetyl-1,6-anhydro-b-D-maltose, OH35390 on page 149

**Maltononaose**[6471-60-9] C<sub>54</sub>H<sub>92</sub>O<sub>46</sub> 1477.28

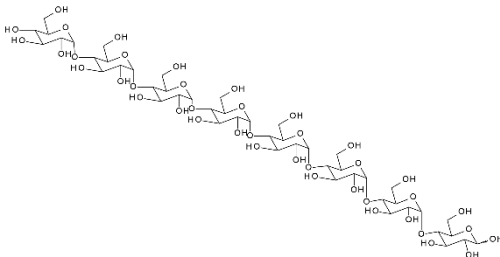
OM76452

1mg	\$65.00
2mg	\$90.00
5mg	\$175.00

**Maltooctaose**[6156-84-9] C<sub>48</sub>H<sub>82</sub>O<sub>41</sub> 1315.16

OM06941

100mg	\$60.00
250mg	\$100.00
500mg	\$185.00



Refs: Yanga S-J, Leea H-S, Kima J-W, Leea M-H, Auha J-H, Leeb B-Hand, Parka K-H, Carbohyd. Res, 2006, 341,3, p420

M

**Maltose**see *D-Maltose monohydrate*, OM06621 on page 185**Maltose alternan oligosaccharide**

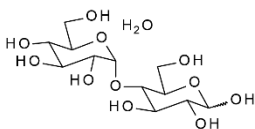
• MAOS

OM58290

Price On Application

**D-Maltose monohydrate**• 4-O- $\alpha$ -D-Glucopyranosyl-D-glucopyranose monohydrate  
• Maltose[6363-53-7][69-79-4] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O 360.31

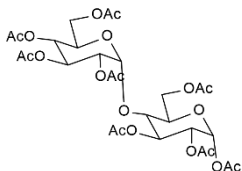
OM06621

1kg \$50.00  
2kg \$90.00  
5kg \$195.00Refs: Zhang T, Marchant RE, *Macromolecules* 1994, No27, p7302-7308**[1-13C]Maltose monohydrate**• 4-O- $\alpha$ -D-Glucopyranosyl-D-[1-13C]glucopyranose monohydrate<sup>13</sup>C<sub>11</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O 361.3

OM76731

25mg \$300.00  
50mg \$450.00  
100mg \$700.00 **$\alpha$ -D-Maltose octaacetate**• 1,2,3,6-Tetra-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\alpha$ -D-glucopyranosyl)- $\alpha$ -D-glucopyranose[6920-00-9] C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.59

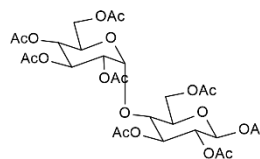
OM16777

100mg \$111.00  
250mg \$200.00  
500mg \$370.00Refs: Polidori, A, et al, *Bioorg. Med. Chem. Lett.* 16, 5827 (2006)**b-D-Maltose octaacetate**

• Octa-O-acetyl-b-D-maltose

[22352-19-8] C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.59

OM04136

50g \$60.00  
100g \$100.00  
250g \$175.00Refs: Rosevear P, VanAken T, Baxter J, Ferguson-Miller S, *Biochemistry* 1980, No19, p4108-4115**Maltose syrup**

Price On Application

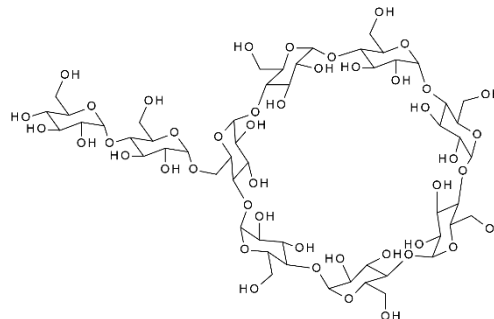
OM46412

**b-Maltosyl azide heptaacetate**

see 2,3,6,2',3',4',6'-Hepta-O-acetyl-b-maltosyl azide, OH06700 on page 146

**6-O- $\alpha$ -Maltosyl-b-cyclodextrin**[104723-60-6] C<sub>54</sub>H<sub>90</sub>O<sub>45</sub> 1459.27

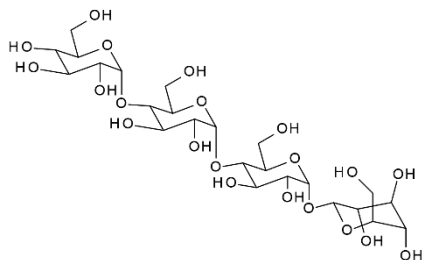
OM10049

5g \$60.00  
10g \$100.00  
25g \$200.00 **$\alpha$ -Maltosyl b-fructofuranoside**see *Erlöse*, OE06974 on page 92

**Maltosyltreh****Maltosyl trehalose**[25545-20-4] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

OM06980

250mg	\$132.50
500mg	\$205.00
1g	\$367.50

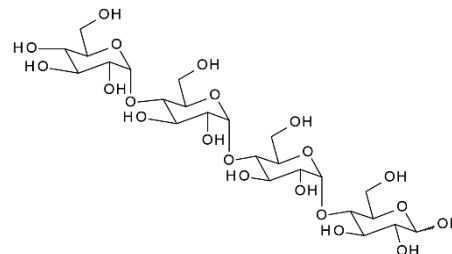
**Maltotetraose**

• a-D-Glucopyranosyl-1,4-O-a-D-glucopyranosyl-1,4-O-a-D-glucopyranosyl-1,4-D-glucopyranose

[34612-38-9] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

OM02796

10mg	\$60.00
25mg	\$115.00
50mg	\$180.00



Refs: Woo GJ, McCord JD, Enzyme Microb. Technol. 1994, Vol16, No12, p1016-1020

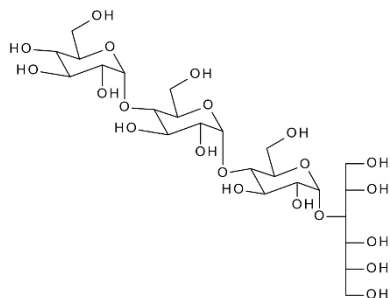
**Maltotetraitol**

• a-D-glucopyranosyl-(1-4)-a-D-glucopyranosyl-(1-4)-a-D-glucopyranosyl-(1-4)-D-glucitol

[66767-99-5] C<sub>24</sub>H<sub>44</sub>O<sub>21</sub> 668.59

OM06978

5mg	\$250.00
10mg	\$450.00
25mg	\$750.00



Refs:

KITAHATA S, MURAKAMI H, OKADA S, Agric. Biol. Chem, 1989, 53, 10, p2653

**Maltotetraose-APD-HSA**

OM29314

1mg	\$425.00
2mg	\$760.00

**Maltotetraosyl-b-cyclodextrin**

OM45021

Price On Application

**a-Maltotetraosyl-a-trehalose**[171609-69-1] C<sub>38</sub>H<sub>62</sub>O<sub>31</sub> 990.86

OM158664

Price On Application



M

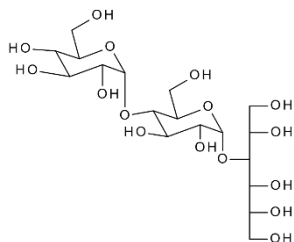
**Maltotriitol**

• a-D-Glucopyranosyl-a-1,4-O-a-D-glucopyranosyl-1,4-D-glucitol

[32860-62-1] C<sub>18</sub>H<sub>34</sub>O<sub>16</sub> 506.45

OM06979

50mg	\$60.00
100mg	\$90.00
250mg	\$180.00



Refs: Anindyawati T, Ann Y-G, Ito K, Iizuka M, Minamiura N,

, J. Fermentation Bioeng, 1998, 85, 5, p465

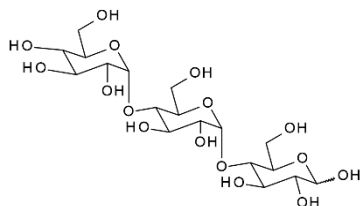
**Maltotriose**

• a-1,4-Glucotriose

[1109-28-0] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OM06486

1g	\$55.00
2g	\$100.00
5g	\$225.00



Refs: Motawia MS, Olsen CE, Enevoldsen K, Marcussen J, et al. Carbohydr. Res. 1995, Vol277, No1, p109-123(15)

**Maltotriose - Technical**[1109-28-0] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

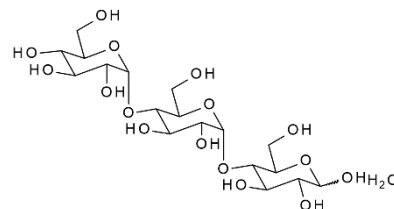
OM45318

250g	\$55.00
500g	\$90.00
1Kg	\$135.00

**Maltotriose monohydrate**[207511-08-8] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub>·H<sub>2</sub>O 522.45

OM04191

1g	\$55.00
2g	\$100.00
5g	\$225.00



Refs: Baigude H, Katsuraya K, Okuyama K, Yachi Y, Sato S, J. Polym. Sci. 2002, Vol40, Issue 21, p3622-3633

**Maltotriose peracetate**see *D-Maltotriose undecaacetate*, OM10964 on page 187**D-Maltotriose undecaacetate**

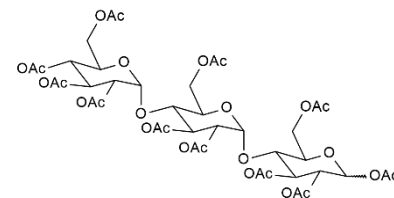
• Maltotriose peracetate

• O-2,3,4,6-Tetra-O-acetyl-a-D-glucopyranosyl-(14)-O-2,3,6-tri-O-acetyl-a-D-glucopyranosyl-(14)-D-glucose 2,3,5,6-tetraacetate

[93911-20-7] C<sub>40</sub>H<sub>54</sub>O<sub>27</sub> 966.84

OM10964

100mg	\$70.00
250mg	\$105.00
500mg	\$185.00

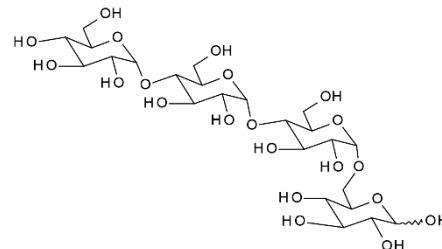
**6-O-(a-D-Maltotriosyl)-D-glucopyranose**

- 4-O-[4-O-(6-O-a-D-Glucopyranosyl-a-D-glucopyranosyl)-a-D-glucopyranosyl]-D-glucose
- Glc-a-1,4-Glc-a-1,4-Glc-a-1,6-Glc

[13264-95-4] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.59

OM07425

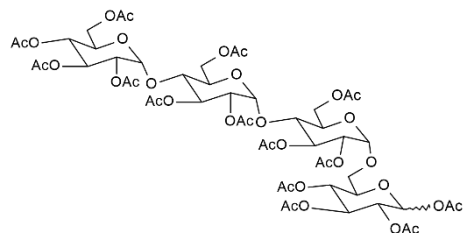
Price On Application



**Maltotriosyl****6-O-( $\alpha$ -D-Maltotriosyl)-D-glucopyranose tetradecaacetate**C<sub>52</sub>H<sub>70</sub>O<sub>35</sub> 1255.09

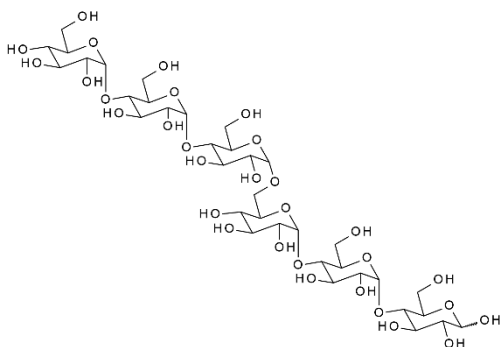
OM07450

2mg	\$89.30
5mg	\$168.00
10mg	\$262.50

**6-a-D-Maltotriosyl-maltotriose**C<sub>36</sub>H<sub>62</sub>O<sub>31</sub> 990.86

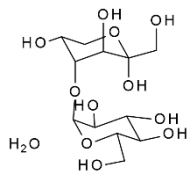
OM46076

50mg	\$245.00
100mg	\$315.00

**Maltulose monohydrate**• 4-O- $\alpha$ -D-Glucopyranosyl-D-fructose monohydrate[17606-72-3][207511-09-9] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O 360.32

OM06578

250mg	\$55.00
500mg	\$95.00
1g	\$155.00

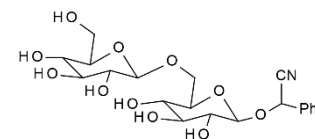
**Mana3[Mana6]Mana6[Mana3]Man**see *a1-3[a1-6]a1-6[a1-3]Mannopentaose, OM05332 on page 194***Mana6Manb4GlcNAcb4GlcNAc**see *Man-2a N-Glycan, OM07637 on page 190***Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc**see *Man-1-F N-Glycan, OM28922 on page 188***Manb1-4Manb1-4(Gala1-6)Man**see *a-D-Galactosyl-mannotriose, OG32474 on page 108***D-Mandelonitrile-b-gentiobioside**

- D-Mandelonitrile-b-D-glucoside-6-O-b-D-glucoside
- D-Amygdalin
- $\alpha$ -[(6-O-b-D-Glucopyranosyl-b-D-glucopyranosyl)oxy]- (R)-Benzeneacetonitrile

[29883-15-6] C<sub>20</sub>H<sub>27</sub>NO<sub>11</sub> 457.43

OM05087

25g	\$45.00
50g	\$75.00
100g	\$130.00



Refs: J. Chem. Soc.1922, 121, p1921

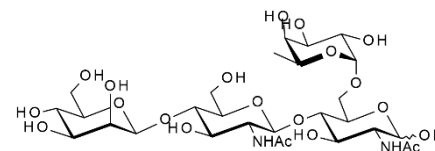
**D-Mandelonitrile-b-D-glucoside-6-O-b-D-glucoside**see *D-Mandelonitrile-b-gentiobioside, OM05087 on page 188***Man-1-F N-Glycan**

- Oligomannose-1 core fucosylated
- Man-1-Fuc
- Manb1-4GlcNAcb1-4(Fuca1-6)GlcNAc

[79300-36-0] C<sub>28</sub>H<sub>48</sub>N<sub>2</sub>O<sub>20</sub> 732.68

OM28922

20ug	\$325.00
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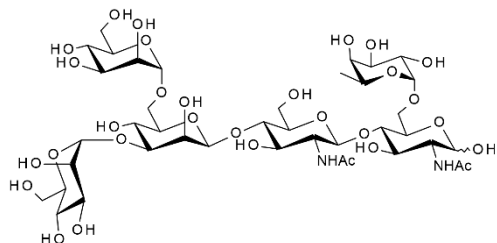


**Man-3-F N-Glycan**

- Pentasaccharide core fucosylated (MAN-3F)
- Mannotriose-[fucosyl-di-(N-acetyl-D-glucosamine)]
- Oligomannose-3 glycan, core fucosylated

[110387-51-4] C<sub>40</sub>H<sub>68</sub>N<sub>2</sub>O<sub>30</sub> 1056.96

OM28924 20ug \$609.00

**Man-1-Fuc**see *Man-1-F N-Glycan, OM28922 on page 188***Man-1-Fuc**

732.68

OM58575

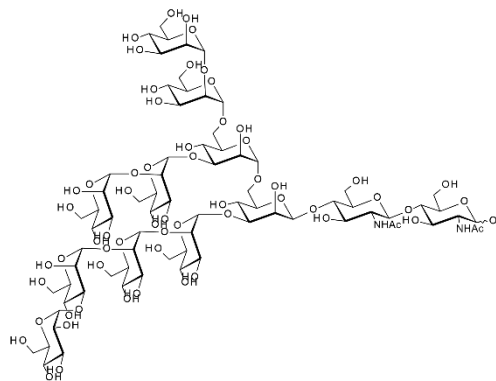
Price On Application

**Man-b-1,4-Glc**see *4-O-(b-D-Mannopyranosyl)-D-glucose, OM04754 on page 195***Man-9-Glc N-Glycan**

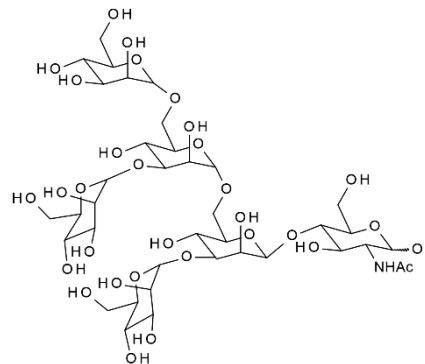
- Oligomannose-9-Glc

[906471-35-0] C<sub>78</sub>H<sub>128</sub>N<sub>2</sub>O<sub>61</sub> 2045.81

OM10178 20ug \$580.00

**Man-b-1,4-GlcNAc**see *2-Acetamido-2-deoxy-4-O-(b-D-mannopyranosyl)-D-glucopyranose, OA06652 on page 17***Man5GlcNAc**

- Man(a1-6)[Man(a1-3)]Man(a1-6)[Man(a1-3)]Man(b1-4)GlcNAc

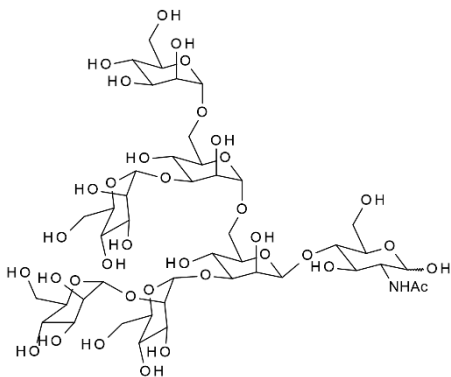
[74385-50-5] C<sub>38</sub>H<sub>65</sub>NO<sub>31</sub> 1031.91OM03878 500ug \$315.00  
1mg \$495.00  
2mg \$900.00**Man7(GlcNAc)2**see *Man-7D1 N-Glycan, OM10176 on page 191*

**ManGlcNAc****Man6GlcNAc (I)**

• Man(a1-6)[Man(a1-3)]Man(a1-6)[Man(a1-2)Man(a1-3)]Man(b1-4)GlcNAc

[70158-31-5] C<sub>44</sub>H<sub>75</sub>NO<sub>36</sub> 1194.05

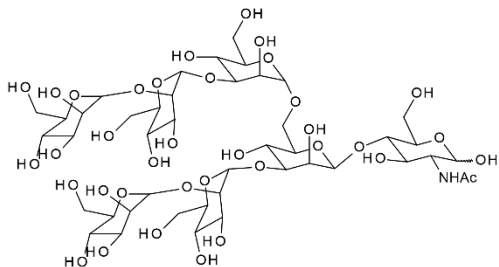
OM28939	1mg	\$595.00
	2mg	\$1170.00
	4mg	\$2300.00

**Man6GlcNAc(II)**

• Man(a1-2)Man(a1-3)Man(a1-6)[Man(a1-2)Man(a1-3)]Man(b1-4)GlcNAc

C<sub>44</sub>H<sub>75</sub>NO<sub>36</sub> 1194.05

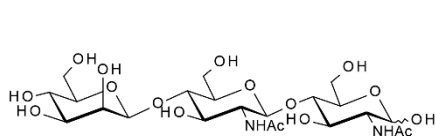
OM06569	500ug	\$315.00
	1mg	\$525.00
	2mg	\$945.00

**Man-1 N-Glycan**

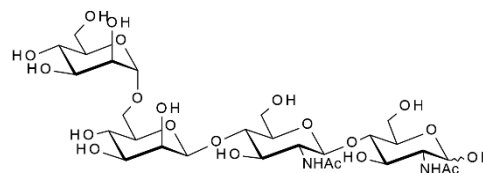
• Oligomannose-1

[159266-34-9] C<sub>22</sub>H<sub>38</sub>N<sub>2</sub>O<sub>16</sub> 586.54

OM28923	20ug	\$378.00
	100ug	\$1575.00

**Man-2a N-Glycan**• Oligomannose-2(a)  
• Mana6Manb4GlcNAcb4GlcNAc[491845-49-9] C<sub>28</sub>H<sub>48</sub>N<sub>2</sub>O<sub>21</sub> 748.68

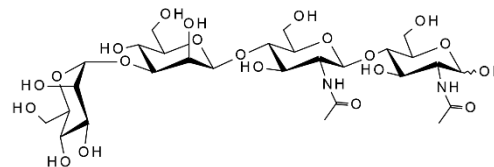
OM07637	10ug	\$157.50
	20ug	\$252.00

**Man-2b N-Glycan**

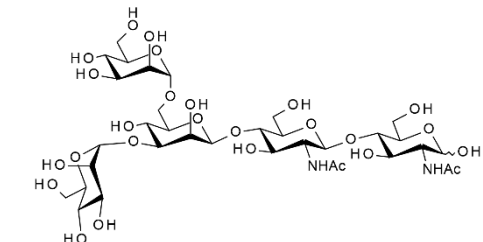
• Oligomannose-2 (b)

[81034-76-6] C<sub>28</sub>H<sub>48</sub>N<sub>2</sub>O<sub>21</sub> 748.68

OM28964	100ug	\$1040.00
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**Man-3a N-Glycan**• Oligomannose-3a  
• Mannotriose-di-(N-acetyl-D-glucosamine)  
• M3N2 N-Glycan[70858-45-6] C<sub>34</sub>H<sub>58</sub>N<sub>2</sub>O<sub>26</sub> 910.82

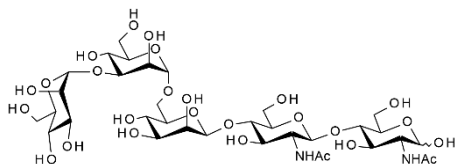
OM10175	100ug	\$790.00
	200ug	\$1400.00
	500ug	\$2500.00



**Man-3b N-Glycan**[1072108-34-9] C<sub>34</sub>H<sub>58</sub>N<sub>2</sub>O<sub>26</sub> 910.82

OM13719

100ug	\$1040.00
200ug	\$1900.00
500ug	\$3750.00

**Man-4 N-Glycan**C<sub>40</sub>H<sub>68</sub>N<sub>2</sub>O<sub>31</sub> 1072.96

OM28925

Price On Application

**Man-5 N-Glycan**

• Oligomannose-5

[66091-47-2] C<sub>46</sub>H<sub>78</sub>N<sub>2</sub>O<sub>36</sub> 1235.1

OM07640

10ug	\$275.00
20ug	\$400.00
50ug	\$700.00

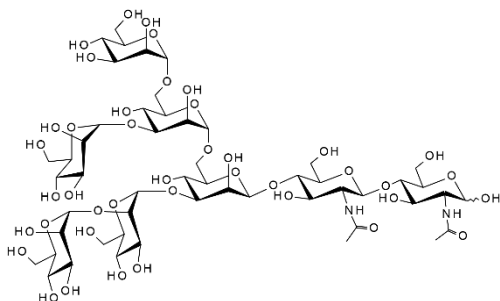
**Man-6 N-Glycan**

• Oligomannose-6 glycan

[340982-27-6] C<sub>52</sub>H<sub>88</sub>N<sub>2</sub>O<sub>41</sub> 1397.24

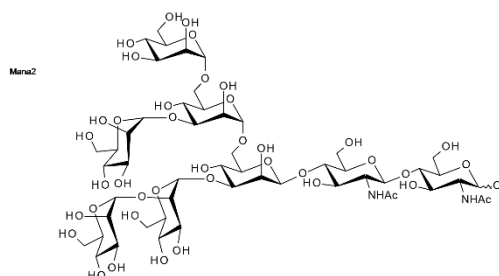
OM07646

10ug	\$275.00
20ug	\$400.00
50ug	\$700.00

**Man-7 N-Glycan**C<sub>58</sub>H<sub>98</sub>N<sub>2</sub>O<sub>46</sub> 1559.38

OM07647

10ug	\$630.00
25ug	\$1234.00

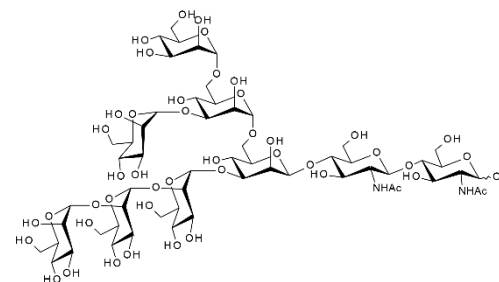
**Man-7D1 N-Glycan**

- Man7(GlcNAc)2
- Mannoheptaose-di-(N-acetyl-D-glucosamine) D1
- Oligomannose-7D1

[83178-05-6] C<sub>58</sub>H<sub>98</sub>N<sub>2</sub>O<sub>46</sub> 1559.38

OM10176

20ug	\$252.00
40ug	\$420.00
100ug	\$945.00

**Man-7D2 N-Glycan**

OM64695

Price On Application



## ManGlycan

## Man-7D3 N-Glycan

OM64696

Price On Application



## Man-8 N-Glycan

• Oligomannose 8 glycan

[77036-51-2] C<sub>64</sub>H<sub>108</sub>N<sub>2</sub>O<sub>51</sub> 1721.53

20ug \$500.00

OM07648



## Man-8D1D2 N-Glycan

OM64697

Price On Application

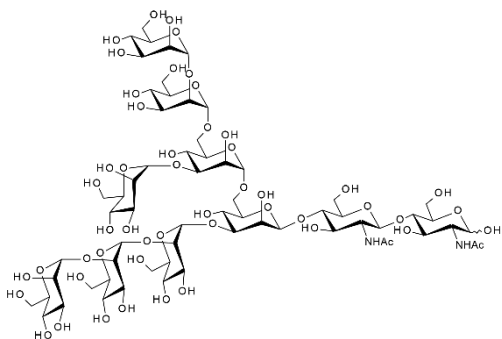


## Man-8D1D3 N-Glycan

• Oligomannose 8D1D3

[1361121-69-8] C<sub>64</sub>H<sub>108</sub>N<sub>2</sub>O<sub>51</sub> 1721.5320ug \$320.00  
50ug \$725.00  
100ug \$1250.00

OM10177



## Man-9 N-Glycan

• Oligomannose-9  
• Mannononoase-di-(N-acetyl-D-glucosamine)[71246-55-4] C<sub>70</sub>H<sub>118</sub>N<sub>2</sub>O<sub>56</sub> 1883.67

OM07641

10ug \$275.00  
20ug \$465.00  
50ug \$875.00

## Man-3 Glycan, 2-AB labelled

• M3N2 Glycan, 2-AB labelled

OM58594

0.1ug \$155.00



## Man-5 Glycan, 2-AB labelled

OM58595

Price On Application



## Man-6 Glycan, 2-AB labelled

OM58596

Price On Application



## Man-7 Glycan, 2-AB labelled

OM58597

Price On Application



M

**Man-8 Glycan, 2-AB labelled**

OM58598

Price On Application

**Man-9 Glycan, 2-AB labelled**

OM58599

Price On Application

**b-D-Man-[1-3]D-man**

see 3-O-(b-D-Mannopyranosyl)-D-mannopyranose, OM10146 on page 195

**Man-1-b-2-Man**

see 2-O-(b-D-Mannopyranosyl)-D-mannopyranose, OM10185 on page 195

**Man-a-1,2-Man**

see 2-O-(a-D-Mannopyranosyl)-D-mannopyranose, OM05906 on page 195

**Man-a-1,3-Man**

see 3-O-(a-D-Mannopyranosyl)-D-mannopyranose, OM00767 on page 195

**Man-a-1,4-Man**

see 4-O-(a-D-Mannopyranosyl)-D-mannose, OM04762 on page 195

**Man-b-1,4-Man**

see 4-O-(b-D-Mannopyranosyl)-D-mannose, OM02505 on page 195

**a-D-Man-(1-6)-a-D-Man-(1-6)-D-Man**

see 1,6-a-D-Mannotriose, OM10121 on page 197

**Man-a-1-3-(Man-a-1-6)-Man**

see 1,3-a-1,6-a-D-Mannotriose, OM05762 on page 196

**Man-a-1,2-Man-a-1,2-Man-a-1-O-(CH2)3NH2**

OM10612

25mg	\$4000.00
50mg	\$5750.00
100mg	\$7500.00

**Man(a1-6)[Man(a1-3)]Man(a1-6)[Man(a1-3)]Man(b1-4)GlcNAc**

see Man5GlcNAc, OM03878 on page 189

**Man(a1-2)Man(a1-3)Man(a1-6)[Man(a1-2)Man(a1-3)]Man(b1-4)GlcNAc**

see Man6GlcNAc(II), OM06569 on page 190

**Man(a1-6)[Man(a1-3)]Man(a1-6)[Man(a1-2)Man(a1-3)]Man(b1-4)GlcNAc**

see Man6GlcNAc (I), OM28939 on page 190

**Man-a-1-6[Man-a-1-3]Man-a-OMe**

see Methyl 3,6-di-O-(a-D-mannopyranosyl)-a-D-mannopyranoside, OM04549 on page 214

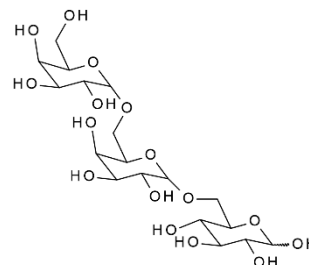
**Man-a-1-3-Man-a-OMe**

see Methyl 3-O-(a-D-mannopyranosyl)-a-D-mannopyranoside, OM06494 on page 217

**Mannitriose**[13382-86-0] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OM09370

2mg	\$89.30
5mg	\$168.00
10mg	\$262.50

**2a-Mannobiose**

see 2-O-(a-D-Mannopyranosyl)-D-mannopyranose, OM05906 on page 195

**3a-Mannobiose**

see 3-O-(a-D-Mannopyranosyl)-D-mannopyranose, OM00767 on page 195

## Mannobiose

**a-1,4-Mannobiose**

see 4-O-(a-D-Mannopyranosyl)-D-mannose, OM04762 on page 195

**a-1,6-D-Mannobiose**

see 6-O-(a-D-Mannopyranosyl)-D-mannose, OM06649 on page 196

**b-1,4-Mannobiose**

see 4-O-(b-D-Mannopyranosyl)-D-mannose, OM02505 on page 195

**a1,2-Mannobiose-BSA**

OM58406	1mg	\$450.00
	2mg	\$800.00
	5mg	\$1450.00

**a1,3-Mannobiose-BSA**

OM58407	1mg	\$600.14
	2mg	\$960.22
	5mg	\$1536.35

**a1,4-Mannobiose-BSA**

OM58408	1mg	\$600.14
	2mg	\$960.22
	5mg	\$1536.35

**a1,6-Mannobiose-BSA**

OM58409	1mg	\$600.14
	2mg	\$960.22
	5mg	\$1536.35

**Mannoheptaose-di-(N-acetyl-D-glucosamine) D1**

see Man-7D1 N-Glycan, OM10176 on page 191

**1,4-b-D-Mannohexaose**C<sub>36</sub>H<sub>62</sub>O<sub>31</sub> 990.86

OM31998

10mg	\$157.50
25mg	\$289.00
50mg	\$499.00

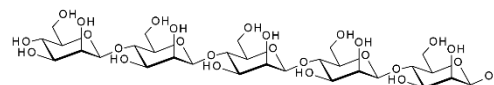
**Mannononaose-di-(N-acetyl-D-glucosamine)**

see Man-9 N-Glycan, OM07641 on page 192

**1,4-b-D-Mannopentaose**[70281-35-5] C<sub>30</sub>O<sub>26</sub>H<sub>52</sub> 828.72

OM31997

5mg	\$70.00
10mg	\$126.00
25mg	\$236.50

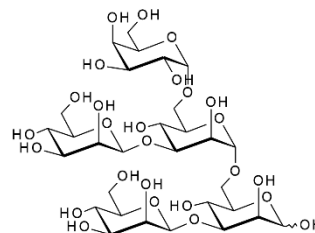
**a1-3[a1-6]a1-6[a1-3]Mannopentaose**

• Mana3[Mana6]Mana6[Mana3]Man

[112828-69-0] C<sub>30</sub>H<sub>52</sub>O<sub>26</sub> 828.72

OM05332

1mg	\$106.00
2mg	\$170.00
5mg	\$340.00



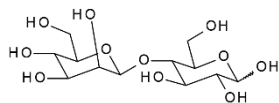
**4-O-(b-D-Mannopyranosyl)-D-glucose**

• Man-b-1,4-Glc

[29276-55-9][28072-80-2] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OM04754

1mg	\$147.00
2mg	\$252.00
5mg	\$551.30



Refs: Ivanova VS, Usov AI, Russ. Chem. Bull. 1979, Vol28, No11, p2437-2439

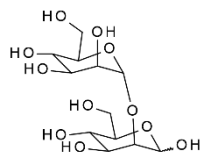
**2-O-(a-D-Mannopyranosyl)-D-mannopyranose**

- 2a-Mannobiose
- Mannopyranosyl-D-mannopyranose
- Man-a-1,2-Man

[15548-39-7] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OM05906

10mg	\$75.00
25mg	\$130.00
50mg	\$225.00

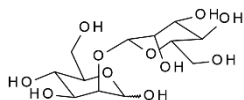
**2-O-(b-D-Mannopyranosyl)-D-mannopyranose**

• Man-1-b-2-Man

[50728-38-6] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OM10185

Price On Application

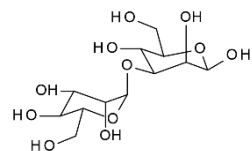
**3-O-(a-D-Mannopyranosyl)-D-mannopyranose**

- Man-a-1,3-Man
- 3a-Mannobiose

[23745-85-9] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OM00767

5mg	\$75.00
10mg	\$130.00
25mg	\$237.50



Refs: Schutzbach JS, et al, FEBS 1969, 5, 2, p145; Sharon N, et al, Pure Appl. Chem. 1983, 55, p671; Ballou CE, Raschke WC, Science 1974, 184, 127; Firon N, et al, Biochem. Biophys. Res. Commun. 1982, 105, 1426

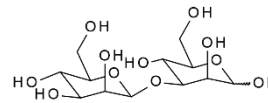
**3-O-(b-D-Mannopyranosyl)-D-mannopyranose**

• b-D-Man-[1-3]D-man

[50692-75-6] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OM10146

Price On Application

**Mannopyranosyl-D-mannopyranose**

see 2-O-(a-D-Mannopyranosyl)-D-mannopyranose, OM05906 on page 195

**2-O-(2-O-(a-D-Mannopyranosyl)-a-D-mannopyranosyl)-a-D-mannopyranose**

OM45750

Price On Application

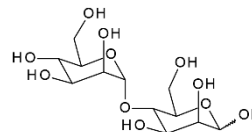
**4-O-(a-D-Mannopyranosyl)-D-mannose**

- a-1,4-Mannobiose
- Man-a-1,4-Man

[35438-40-5] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OM04762

5mg	\$75.00
10mg	\$110.00
25mg	\$200.00



Refs: Ivanova VS, Usov AI, Russ. Chem. Bull. 1979, Vol28, No11, p2437-2439

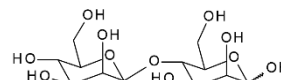
**4-O-(b-D-Mannopyranosyl)-D-mannose**

- b-1,4-Mannobiose
- Man-b-1,4-Man

[14417-51-7] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OM02505

5mg	\$75.00
10mg	\$110.00
25mg	\$210.00



Refs: Twaddle GWJ, Yashunsky DV, Nikolaev AV, Org. Biomol. Chem. 2003, 1, p623,

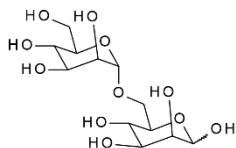
**Mannopyranos****6-O-(a-D-Mannopyranosyl)-D-mannose**

• a-1,6-D-Mannobiose

[6614-35-3] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OM06649

2mg	\$50.00
5mg	\$100.00
10mg	\$180.00

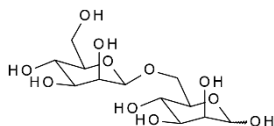


Refs: Cao Z, Jefferson DM, Panjwani N, J. Biol. Chem. 1998, Vol273, Issue 25, 15838-15845

**6-O-(b-D-Mannopyranosyl)-D-mannose**[71184-87-7] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OM10145

Price On Application

**1,3-a-1,6-a-D-Mannotetraose**C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

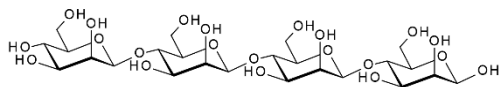
OM58463

1mg	\$75.00
2mg	\$120.00
5mg	\$225.00

**1,4-b-D-Mannotetraose**[51327-76-5] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

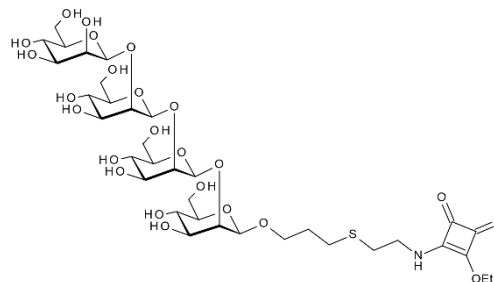
OM28986

5mg	\$85.00
10mg	\$150.00
25mg	\$250.00

**Mannotetraose squarate**[385842-90-0] C<sub>35</sub>H<sub>57</sub>NO<sub>24</sub>S 907.89

OM29155

Price On Application

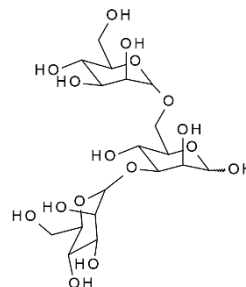
**1,3-a-1,6-a-D-Mannotriose**

- Man-a-1-3-(Man-a-1-6)-Man
- 3,6-Di-O-(a-D-mannopyranosyl)-D-mannopyranose

[121123-33-9] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

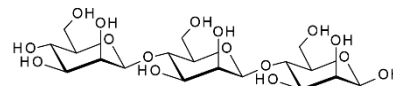
OM05762

5mg	\$65.00
10mg	\$110.00
25mg	\$175.00

**1,4-b-D-Mannotriose**[28173-52-6] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OM31999

10mg	\$85.00
25mg	\$150.00
50mg	\$250.00





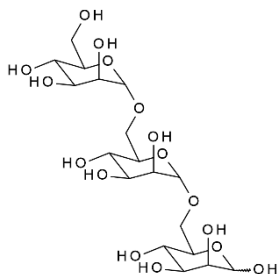
**1,6-a-D-Mannotriose**

• a-D-Man-(1-6)-a-D-Man-(1-6)-D-Man

C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OM10121

1mg	\$150.00
2mg	\$240.00
5mg	\$500.00

**a1-3,a1-6-Mannotriose-BSA**

OM58614

1mg	\$129.72
2mg	\$207.56
5mg	\$332.10

**Mannotriose-di-(N-acetyl-D-glucosamine)**see *Man-3a N-Glycan*, OM10175 on page 190**Mannotriose-[fucosyl-di-(N-acetyl-D-glucosamine)]**see *Man-3-F N-Glycan*, OM28924 on page 189**1,3-a-1,6-a-D-Mannotriose a-methyl glycoside**see *Methyl 3,6-di-O-(a-D-mannopyranosyl)-a-D-mannopyranoside*, OM04549 on page 214**1,3-a-1,6-a-D-Mannotriosyl trichloroacetimidate**

• 3,6-Di-O-(a-D-mannopyranosyl)-D-mannopyranosyl trichloroacetimidate

OM46507

Price On Application

**Man-3-Xyl-Fuc N-Glycan**

• Oligomannose-3 xylose, 1-3 fucose

C<sub>45</sub>H<sub>76</sub>N<sub>2</sub>O<sub>34</sub> 1189.08

OM32523

Price On Application

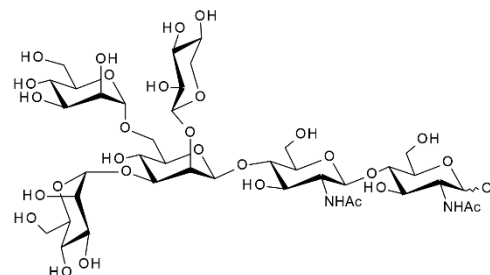
**Man-3Xyl N-Glycan**

• Oligomannose-3XL

[110037-52-0] C<sub>39</sub>H<sub>66</sub>N<sub>2</sub>O<sub>30</sub> 1042.94

OM10179

25ug	\$315.00
50ug	\$525.00
100ug	\$840.00

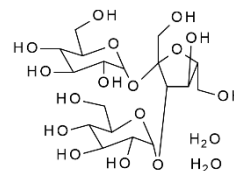
**MAOS**see *Maltose alternan oligosaccharide*, OM58290 on page 185**D-Melezitose hydrate**

• O-a-D-Glucopyranosyl-(1-3)-D-fructopyranosyl-a-D-glucopyranose

[597-12-6][207511-10-2] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub>·xH<sub>2</sub>O 504.44 (anhydrous basis)

OM06904

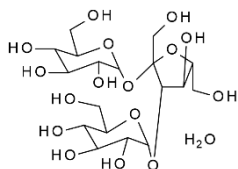
5g	\$60.00
10g	\$100.00
25g	\$175.00



**Melezitosemo****D-Melezitose monohydrate**• O- $\alpha$ -D-Glucopyranosyl-(1-3)-b-d-fructofuranosyl-(2-1)- $\alpha$ -D-glucopyranose[10030-67-8] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub>·H<sub>2</sub>O 522.45

OM00386

25g	\$55.00
50g	\$95.00
100g	\$175.00

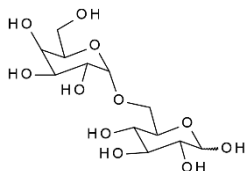


Refs: Perkins EL, Needleman RB, Curr. Genet. 1988, May, 13(5), 369-75

**D-Melibiose anhydrous**• 6-O-( $\alpha$ -D-Galactopyranosyl)-D-glucopyranose anhydrous[585-99-9] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

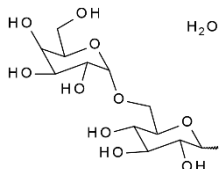
OM02328

5g	\$63.00
10g	\$115.50
25g	\$210.00

**D-Melibiose monohydrate**• 6-O-( $\alpha$ -D-Galactopyranosyl)-D-glucopyranose monohydrate[585-99-9][66009-10-7] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O 360.31

OM06702

25g	\$65.00
50g	\$125.00
100g	\$200.00



Refs: Wäckers FL, J. Chem. Ecol. 1999, Vol25, No12, 2863-2877

**Melibiulose**• 6-O-( $\alpha$ -D-Galactopyranosyl)-D-fructofuranose[111188-56-8] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

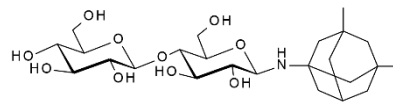
OM32574

1mg	\$2200.00
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**Memantine N-cellobioside**• N-(3,5-Dimethyltricyclo[3.3.1.1<sup>3,7</sup>]dec-1-yl)-4-O- $\beta$ -D-glucopyranosyl-D-glucopyranosylamine[1159637-28-1] C<sub>24</sub>H<sub>41</sub>NO<sub>10</sub> 503.58

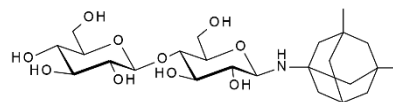
OM156922

250mg	\$2250.00
500mg	\$3000.00

**Memantine lactose adduct**• MLA  
• N-(3,5-dimethyltricyclo[3.3.1.1<sup>3,7</sup>]dec-1-yl)-4-O- $\beta$ -D-glucopyranosyl-D-GlucopyranosylamineC<sub>24</sub>H<sub>41</sub>NO<sub>10</sub> 503.58

OM16466

5mg	\$85.00
10mg	\$150.00
25mg	\$350.00

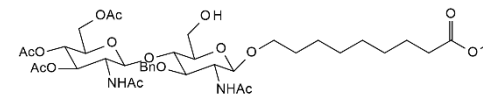


Refs: Kustimur, et al, Chinese Med. J. 116, 633 (2003)

**8-Methoxycarbonyl-3-benzyl-3',4',6',6-tetra-O-acetyl-N,N'-diacetyl-b-chitobioside**[359436-87-6] C<sub>39</sub>H<sub>58</sub>N<sub>2</sub>O<sub>16</sub> 810.88

OM06485

2mg	\$80.00
5mg	\$150.00
10mg	\$250.00

**8-Methoxycarbonyloctyl 2-acetamido-2-deoxy-4-( $\alpha$ -L-fucopyranosyl)-3-O-( $\beta$ -D-galactopyranosyl)- $\beta$ -D-glucopyranoside**

[56343-02-3]

OM00794

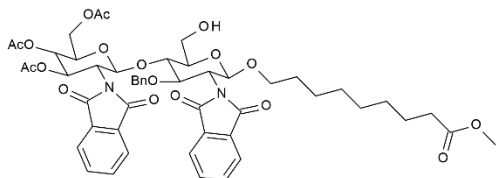
Price On Application



**8-Methoxycarbonyloctyl-3-O-benzyl-2,2'-dideoxy-2,2'-diphthalimido-3',4',6-tri-O-acetyl-b-cellobiose**[106445-30-1] C<sub>51</sub>H<sub>58</sub>N<sub>2</sub>O<sub>18</sub> 987.01

OM06842

5mg	\$89.30
10mg	\$157.50
25mg	\$315.00

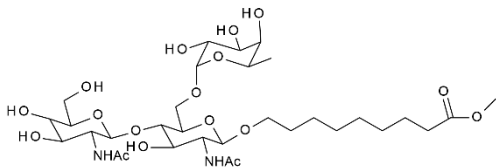


Refs: Lee HH, et al, Can. J. Chem. 1986, 64, 1912

**8-Methoxycarbonyloctyl-6-O-(a-L-fucopyranosyl)-N,N'-diacetyl-chitobioside**[106445-35-6] C<sub>32</sub>H<sub>56</sub>N<sub>2</sub>O<sub>17</sub> 740.79

OM06664

1mg	\$210.00
2mg	\$367.50
5mg	\$735.00

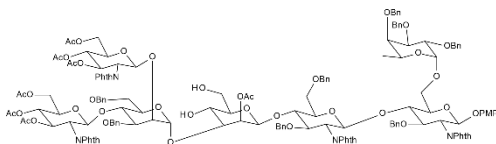
**4-Methoxyphenyl 4-O-(4-O-[[2-O-Ac-3-O-[2,4-di-O-(3,4,6-tri-O-Ac-2-deoxy-2-PhthN-b-D-Glc)-3,6-di-O-Bn-a-D-Man]]-b-D-Man]]-3,6-di-O-Bn-2-deoxy-2-PhthN-b-D-Glc)-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-deoxy-2-PhthN-b-D-Glc**

• 4-Methoxyphenyl 4-O-(4-O-[[2-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-a-D-mannopyranosyl]-b-D-mannopyranosyl]]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>151</sub>H<sub>152</sub>N<sub>4</sub>O<sub>47</sub> 2774.82

OM11015

1mg	\$199.50
2mg	\$378.00
5mg	\$918.80

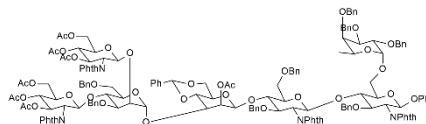
**4-Methoxyphenyl 4-O-(4-O-[[2-O-Ac-3-O-[2,4-di-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-3,6-di-O-Bn-a-D-Man]-4,6-O-benzylidene-b-D-Man]]-3,6-di-O-Bn-2-PhthN-b-D-Glc)-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-PhthN-b-D-Glc**

• 4-Methoxyphenyl 4-O-(4-O-[[2-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-a-D-mannopyranosyl]-4,6-O-benzylidene-b-D-mannopyranosyl]]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>158</sub>H<sub>156</sub>N<sub>4</sub>O<sub>47</sub> 2862.93

OM11014

1mg	\$115.50
2mg	\$210.00
5mg	\$498.80

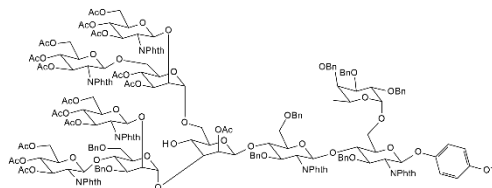
**4-Methoxyphenyl 4-O-(4-O-[[2-O-Ac-3-O-[2,4-di-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-3,6-di-O-Bn-a-D-Man]]-6-O-[3,4-di-O-Ac-2,6-di-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-a-D-Man]-b-D-Man]]-3,6-di-O-Bn-2-PhthN-b-D-Glc)-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-PhthN-b-D-Glc**

• 4-Methoxyphenyl 4-O-(4-O-[[2-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-b-D-mannopyranosyl]-b-D-mannopyranosyl]]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside

[946164-26-7] C<sub>201</sub>H<sub>204</sub>N<sub>6</sub>O<sub>72</sub> 3855.77

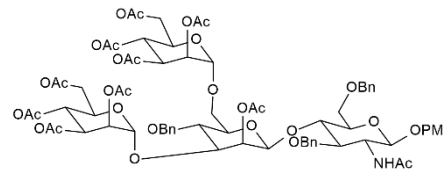
OM11016

1mg	\$210.00
2mg	\$388.50
5mg	\$918.80

**4-Methoxyphenyl 2-acetamido-4-O-[2-O-acetyl-3,6-di-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-4-O-benzyl-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-b-D-glucopyranoside**C<sub>72</sub>H<sub>87</sub>N<sub>3</sub>O<sub>31</sub> 1462.45

OM10973

5mg	\$94.50
10mg	\$178.50
25mg	\$394.00



## Methoxypheny

## 4-Methoxyphenyl 4-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-2-acetamido-2-deoxy-b-D-glucopyranoside

• LacDiNAc MP Glycoside

C<sub>23</sub>H<sub>34</sub>N<sub>2</sub>O<sub>12</sub> 530.52

OM59651

1mg	\$280.00
2mg	\$400.00
5mg	\$775.00

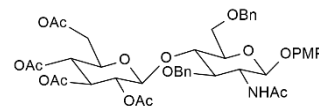


## 4-Methoxyphenyl 2-acetamido-4-O-(2,3,4,6-tri-O-acetyl-b-D-glucopyranosyl)-3,6-di-O-benzyl-2-deoxy-b-D-glucopyranoside

C<sub>43</sub>H<sub>51</sub>NO<sub>16</sub> 837.86

OM10944

5mg	\$99.80
10mg	\$178.50
25mg	\$394.00

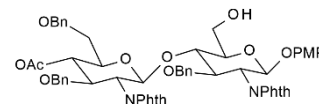


## 4-Methoxyphenyl 4-O-(4-O-acetyl-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>58</sub>H<sub>54</sub>N<sub>2</sub>O<sub>15</sub> 1019.05

OM10941

1mg	\$94.50
2mg	\$178.50
5mg	\$420.00

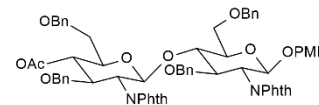


## 4-Methoxyphenyl 4-O-(4-O-acetyl-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>65</sub>H<sub>60</sub>N<sub>2</sub>O<sub>15</sub> 1109.17

OM10947

100mg	\$95.00
250mg	\$210.00
500mg	\$395.00

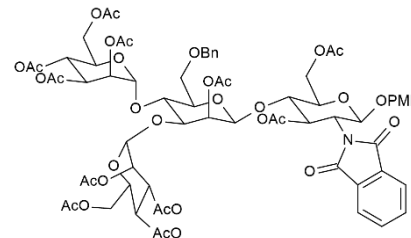


## 4-Methoxyphenyl 4-O-[2-O-acetyl-3,4-di-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-6-O-benzyl-b-D-mannopyranosyl]-3,6-di-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>68</sub>H<sub>79</sub>NO<sub>34</sub> 1454.34

OM10957

1mg	\$195.00
2mg	\$350.00
5mg	\$750.00

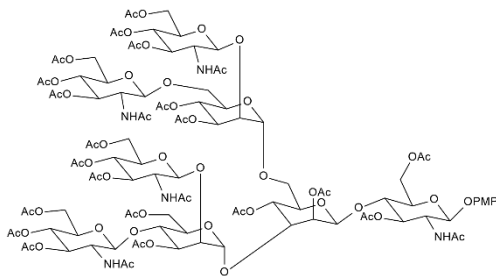


## 4-Methoxyphenyl 2-acetamido-3,6-di-O-acetyl-4-O-(2,4-di-O-acetyl-3-O-[3,6-di-O-acetyl-2,4-di-O-(3,4,6-tri-O-acetyl-2-acetamido-2-deoxy-b-D-glucopyranosyl)-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-acetamido-2-deoxy-b-D-glucopyranosyl)-a-D-mannopyranosyl]-b-D-mannopyranosyl)-2-deoxy-b-D-glucopyranoside

C<sub>105</sub>H<sub>143</sub>N<sub>5</sub>O<sub>62</sub> 2467.26

OM11008

1mg	\$472.50
2mg	\$840.00
5mg	\$1837.50

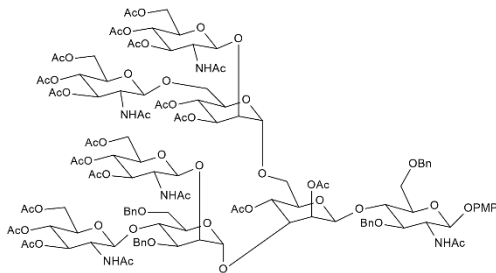


## 4-Methoxyphenyl 2-acetamido-3,6-di-O-benzyl-4-O-(2,4-di-O-acetyl-3-O-[3,6-di-O-benzyl-2,4-di-O-(3,4,6-tri-O-acetyl-2-acetamido-2-deoxy-b-D-glucopyranosyl)-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-acetamido-2-deoxy-b-D-glucopyranosyl)-a-D-mannopyranosyl]-b-D-mannopyranosyl)-2-deoxy-b-D-glucopyranoside

C<sub>125</sub>H<sub>159</sub>N<sub>5</sub>O<sub>58</sub> 2659.6

OM11009

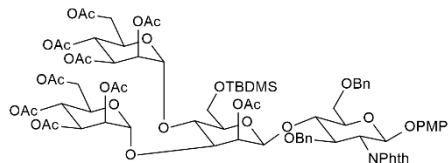
1mg	\$525.00
2mg	\$945.00
5mg	\$2100.00



**4-Methoxyphenyl 4-O-[2-O-acetyl-3,4-di-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)]-6-O-tert-butyltrimethylsilyl-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside**C<sub>77</sub>H<sub>95</sub>N<sub>3</sub>O<sub>32</sub>Si 1574.65

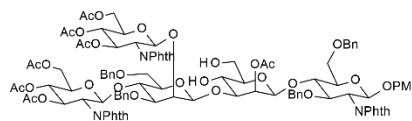
OM10974

1mg	\$195.00
2mg	\$350.00
5mg	\$750.00

**4-Methoxyphenyl 4-O-[2-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-3,6-di-O-benzyl-b-D-mannopyranosyl]-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside**C<sub>103</sub>H<sub>105</sub>N<sub>3</sub>O<sub>37</sub> 1976.93

OM10991

1mg	\$195.00
2mg	\$370.00
5mg	\$825.00

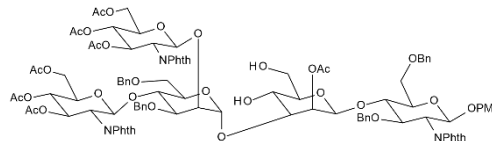
**4-Methoxyphenyl 4-O-(4-O-[2-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-3,6-di-O-benzyl-a-D-mannopyranosyl]-4,6-O-benzylidene-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside**

see 4-Methoxyphenyl 4-O-(4-O-[2-O-Ac-3-O-[2,4-di-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-3,6-di-O-Bn-a-D-Man]-4,6-O-benzylidene-b-D-Man]-3,6-di-O-Bn-2-PhthN-b-D-Glc)-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-PhthN-b-D-Glc, OM11014 on page 199

**4-Methoxyphenyl 4-O-[2-O-acetyl-4-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-3,4-di-O-benzyl-a-D-mannopyranosyl]-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside**C<sub>103</sub>H<sub>105</sub>N<sub>3</sub>O<sub>37</sub> 1976.93

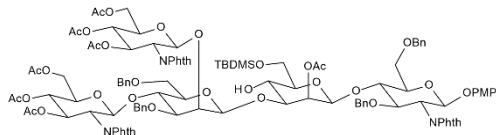
OM10954

5mg	\$94.50
10mg	\$157.50
25mg	\$315.00

**4-Methoxyphenyl 4-O-[2-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-3,6-di-O-benzyl-b-D-mannopyranosyl]-6-O-tert-butyltrimethylsilyl-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside**C<sub>109</sub>H<sub>119</sub>N<sub>3</sub>O<sub>37</sub>Si 2091.19

OM10993

1mg	\$420.00
2mg	\$787.50
5mg	\$1837.50

**4-Methoxyphenyl 4-O-(4-O-[2-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-3,6-di-O-benzyl-a-D-mannopyranosyl]-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside**

see 4-Methoxyphenyl 4-O-(4-O-[2-O-Ac-3-O-[2,4-di-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-3,6-di-O-Bn-a-D-Man]-b-D-Man]-3,6-di-O-Bn-2-PhthN-b-D-Glc)-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-deoxy-2-PhthN-b-D-Glc, OM11015 on page 199

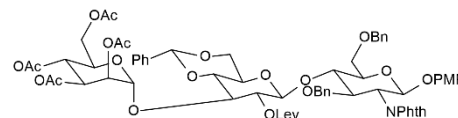
**4-Methoxyphenyl 4-O-(4-O-[2-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-3,6-di-O-benzyl-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-b-D-mannopyranosyl]-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside**

see 4-Methoxyphenyl 4-O-(4-O-[2-O-Ac-3-O-[2,4-di-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-3,6-di-O-Bn-a-D-Man]-6-O-[3,4-di-O-Ac-2,6-di-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-a-D-Man]-b-D-Man]-3,6-di-O-Bn-2-PhthN-b-D-Glc)-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-PhthN-b-D-Glc, OM11016 on page 199

**4-Methoxyphenyl 4-O-[3-O-(2,3,4,6-O-acetyl-a-D-mannopyranosyl)]-4,6-O-benzylidene-2-O-levulinoyl-b-D-glucopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside**C<sub>67</sub>H<sub>71</sub>N<sub>2</sub>O<sub>24</sub> 1274.27

OM10975

5mg	\$94.50
10mg	\$178.50
25mg	\$394.00



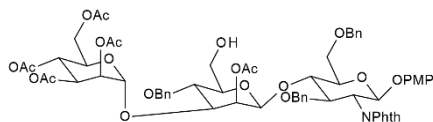
## Methoxypheny

## 4-Methoxyphenyl 4-O-[2-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-4-O-benzyl-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>64</sub>H<sub>69</sub>NO<sub>23</sub> 1220.23

OM10960

5mg	\$94.50
10mg	\$157.50
25mg	\$315.00

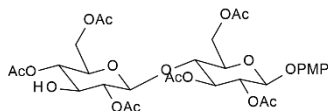


## 4-Methoxyphenyl 2,3,6-O-acetyl-4-O-(2,4,6-tri-O-acetyl-b-D-galactopyranosyl)-b-D-glucopyranoside

C<sub>31</sub>H<sub>40</sub>O<sub>18</sub> 700.64

OM10982

1mg	\$75.00
2mg	\$130.00
5mg	\$250.00

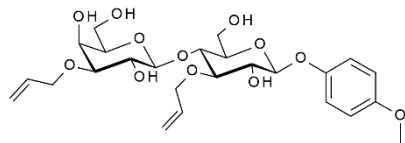


## 4-Methoxyphenyl 4-O-(3-O-allyl-b-D-galactopyranosyl)-3-O-allyl-b-D-glucopyranoside

C<sub>25</sub>H<sub>36</sub>O<sub>12</sub> 528.55

OP10980

5mg	\$787.50
10mg	\$1312.50
25mg	\$2625.00



## Methoxyphenyl 3-O-(3-O-allyl-2,4,6-tri-O-benzyl-b-D-galactopyranosyl)-6-O-benzyl-2-deoxy-2-N-phthalimido-b-D-glucopyranoside

C<sub>58</sub>H<sub>59</sub>NO<sub>13</sub> 978.09

OG60598

Price On Application



## 4-Methoxyphenyl 3-O-benzyl-4-O-[4-O-[2-O-acetyl-3-O-(3-O-tri-O-benzyl-2,4,6-O-(3,4,6-tri-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranosyl)-6-O-(3-O-tri-O-benzyl-2,4,6-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranosyl)-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside

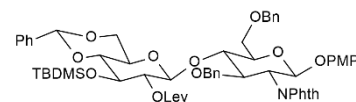
see 4-Methoxyphenyl 3-O-Bn-4-O-[4-O-[2-O-Ac-3-O-(3-O-tri-O-Bn-2,4,6-O-(3,4,6-tri-O-Bn-2-PhthN-b-D-Glc)-a-D-Man]-6-O-(3-O-tri-O-Bn-2,4,6-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-a-D-Man)-b-D-Man]-3,6-di-O-Bn-2-PhthN-b-D-Glc]-6-O-PMP-2-PhthN-b-D-Glc, OM12495 on page 203

## 4-Methoxyphenyl 4-O-(4,6-O-benzylidene-3-O-tert-butylidimethylsilyl-2-O-levulinoyl-b-D-glucopyranosyl)-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>59</sub>H<sub>67</sub>NO<sub>15</sub>Si 1058.24

OM10970

50mg	\$94.50
100mg	\$179.00
250mg	\$395.00

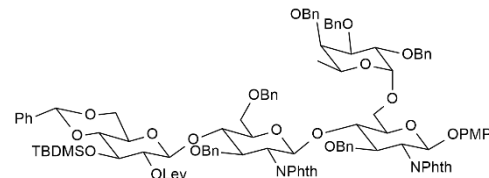


## 4-Methoxyphenyl 4-O-[4-O-(4,6-O-benzylidene-3-O-tert-butylidimethylsilyl-2-O-levulinoyl-b-D-glucopyranosyl)-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>107</sub>H<sub>114</sub>N<sub>2</sub>O<sub>25</sub>Si 1856.13

OM11005

1mg	\$94.50
2mg	\$178.50
5mg	\$393.80

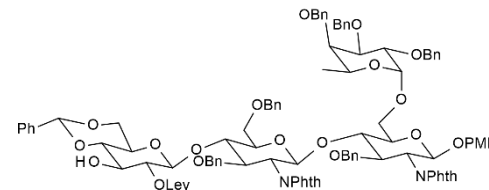


## 4-Methoxyphenyl 4-O-[4-O-(4,6-O-benzylidene-2-O-levulinoyl-b-D-glucopyranosyl)-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-6-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>101</sub>H<sub>100</sub>N<sub>2</sub>O<sub>25</sub> 1741.87

OM11006

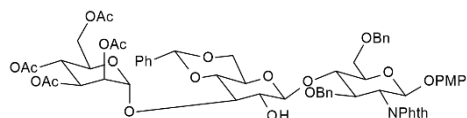
1mg	\$78.80
2mg	\$147.00
5mg	\$341.30



**4-Methoxyphenyl 4-O-[4,6-O-benzylidene-3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-b-D-glucopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside**CezHesNO<sub>22</sub> 1176.17

OM10971

5mg	\$94.50
10mg	\$178.50
25mg	\$394.00

**4-Methoxyphenyl 3-O-Bn-4-O-[4-O-[2-O-Ac-3-O-(3-O-tri-O-Bn-2,4,6-O-(3,4,6-tri-O-Bn-2-PhthN -b-D-Glc)-a-D-Man]-6-O-(3-O-tri-O-Bn-2,4,6-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-a-D-Man)-b-D-Man]-3,6-di-O-Bn-2-PhthN -b-D-Glc]-6-O-PMP-2-PhthN-b-D-Glc**

• 4-Methoxyphenyl 3-O-benzyl-4-O-[4-O-[2-O-acetyl-3-O-(3-O-tri-O-benzyl-2,4,6-O-(3,4,6-tri-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranosyl]-6-O-(3-O-tri-O-benzyl-2,4,6-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranosyl)-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-2-deoxy-6-O-(4-methoxyphenyl)-2-phthalimido-b-D-glucopyranoside

OM12495

1mg	\$157.50
2mg	\$262.50
5mg	\$525.00

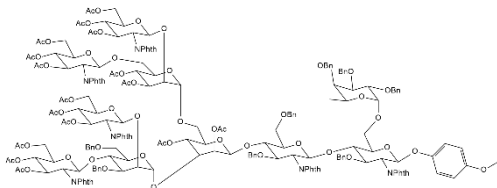
**4-Methoxyphenyl 4-O-[4-O-[2,4-di-O-Ac-3-O-[2,4-di-O-(3,4,6-tri-O-Ac-2-PhthN -b-D-Glc)-3,6-di-O-Bn-a-D-Man]-6-O-[3,4-di-O-Ac-2,6-di-O-(3,4,6-tri-O-Ac-2-PhthN -b-D-Glc)-a-D-Man]-b-D-Man]-3,6-di-O-Bn-2-PhthN-b-D-Glc]-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-PhthN-b-D-Glc**

• 4-Methoxyphenyl 4-O-[4-O-[2,4-di-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-b-D-mannopyranosyl]-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside

[946164-27-8] C<sub>203</sub>H<sub>206</sub>N<sub>6</sub>O<sub>73</sub> 3897.8

OM11017

1mg	\$273.00
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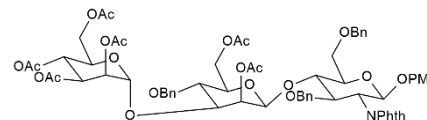
**4-Methoxyphenyl 4-O-[4-O-[2,4-di-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-b-D-mannopyranosyl]-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside**

see 4-Methoxyphenyl 4-O-[4-O-[2,4-di-O-Ac-3-O-[2,4-di-O-(3,4,6-tri-O-Ac-2-PhthN -b-D-Glc)-3,6-di-O-Bn-a-D-Man]-6-O-[3,4-di-O-Ac-2,6-di-O-(3,4,6-tri-O-Ac-2-PhthN -b-D-Glc)-a-D-Man]-b-D-Man]-3,6-di-O-Bn-2-PhthN-b-D-Glc]-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-PhthN-b-D-Glc, OM11017 on page 203

**4-Methoxyphenyl 4-O-[2,6-di-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-4-O-benzyl-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside**C<sub>66</sub>H<sub>71</sub>NO<sub>24</sub> 1262.26

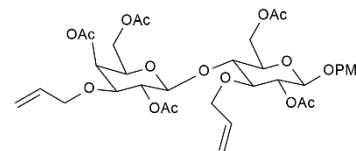
OM10961

1mg	\$94.50
2mg	\$178.50
5mg	\$420.00

**4-Methoxyphenyl 2,6-di-O-acetyl-4-O-[2,4,6-tri-O-acetyl-3-O-allyl-b-D-galactopyranosyl]-3-O-allyl-b-D-glucopyranoside**C<sub>35</sub>H<sub>46</sub>O<sub>17</sub> 738.73

OM10984

1mg	\$94.50
2mg	\$178.50
5mg	\$420.00

**4-Methoxyphenyl 2,4-Di-O-benzoyl-3-O-benzyl-6-O-(methyl 5-Acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosonate)-b-D-galactopyranoside**

see Neu5Ac[1Me,4789Ac]a(2-6)Gal[24Bz,3Bn]-b-MP, ON60600 on page 231

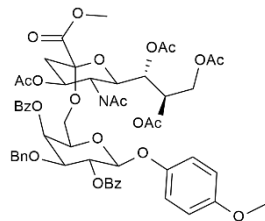
## Methoxypheny

4-Methoxyphenyl 2,4-di-O-benzoyl-3-O-benzyl-6-O-(methyl 5-acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero- $\alpha$ -D-galacto-2-nonulopyranosylate)- $\beta$ -D-galactopyranoside

C<sub>64</sub>H<sub>99</sub>NO<sub>21</sub> 1058.04

OM15708

100mg \$500.00  
250mg \$875.00



4-Methoxyphenyl 2,4-Di-O-benzoyl-3-O-benzyl-6-O-[methyl 5-(Acetoxyacetamido)-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero- $\alpha$ -D-galacto-2-nonulopyranosylate]- $\beta$ -D-galactopyranoside

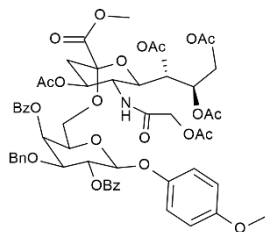
see Neu5GcAc[1Me,4789Ac]a(2-6)Gal[24Bz,3Bn]-b-MP, ON60601 on page 231

4-Methoxyphenyl 2,4-di-O-benzoyl-3-O-benzyl-6-O-[methyl 5-(acetoxycetamido)-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero- $\alpha$ -D-galacto-2-nonulopyranosylate]- $\beta$ -D-galactopyranoside

C<sub>68</sub>H<sub>61</sub>NO<sub>23</sub> 1116.08

OM15706

100mg \$630.00  
250mg \$1187.50

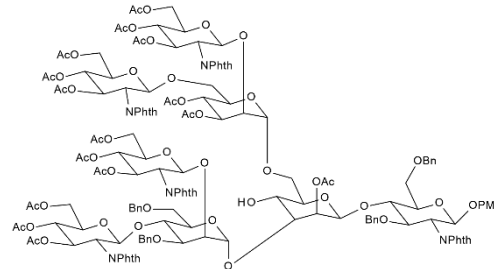


4-Methoxyphenyl 3,6-di-O-benzyl-4-O-{2-O-acetyl-3-O-[3,6-di-O-benzyl-2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)- $\alpha$ -D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)- $\alpha$ -D-mannopyranosyl]- $\beta$ -D-mannopyranosyl]-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>153</sub>H<sub>157</sub>N<sub>5</sub>O<sub>62</sub> 3057.88

OM11010

1mg \$495.00  
2mg \$900.00  
5mg \$1750.00

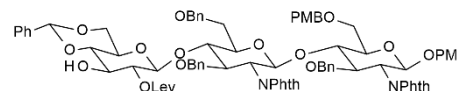


4-Methoxyphenyl 4-O-[3,6-di-O-benzyl-2-deoxy-4-O-(4,6-O-benzylidene-2-O-levulinoyl-b-D-glucopyranosyl)-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-2-deoxy-6-O-(4-methoxybenzyl)-2-phthalimido-b-D-glucopyranoside

C<sub>62</sub>H<sub>80</sub>N<sub>2</sub>O<sub>22</sub> 1445.51

OM10949

100mg \$95.00  
250mg \$210.00  
500mg \$395.00

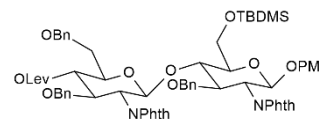


4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-4-O-levulinoyl-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-6-O-tert-butylidimethylsilyl-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>67</sub>H<sub>72</sub>N<sub>2</sub>O<sub>16</sub>Si 1189.38

OM11002

1mg \$78.80  
2mg \$147.00  
5mg \$341.30



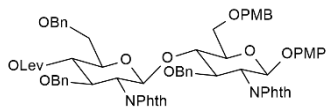


**4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-4-O-levulinoyl-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-2-deoxy-6-O-(4-methoxybenzyl)-2-phthalimido-b-D-glucopyranoside**

C<sub>69</sub>H<sub>66</sub>N<sub>2</sub>O<sub>17</sub> 1195.27

OM10943

250mg	\$197.50
500mg	\$345.00
1g	\$498.80

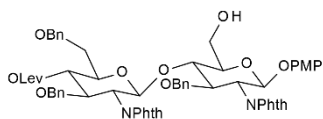


**4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-4-O-levulinoyl-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside**

C<sub>61</sub>H<sub>58</sub>N<sub>2</sub>O<sub>16</sub> 1075.12

OM10935

1mg	\$84.00
2mg	\$157.50
5mg	\$367.50

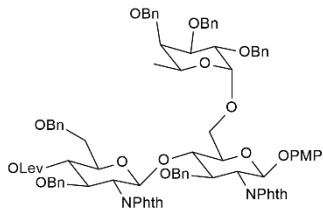


**4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-4-O-levulinoyl-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-6-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside**

C<sub>68</sub>H<sub>60</sub>N<sub>2</sub>O<sub>20</sub> 1491.63

OM11003

1mg	\$78.80
2mg	\$147.00
5mg	\$341.30

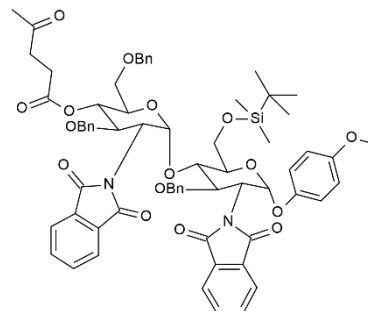


**4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-4-O-levulinoyl-2-phthalimido-b-D-glucopyranosyl)-6-O-tert-butylidimethylsilyl-3-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside**

C<sub>67</sub>H<sub>72</sub>N<sub>2</sub>O<sub>16</sub>Si 1189.38

OM12491

1mg	\$84.00
2mg	\$157.50
5mg	\$341.30

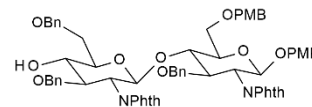


**4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-2-deoxy-6-O-(4-methoxybenzyl)-2-phthalimido-b-D-glucopyranoside**

C<sub>64</sub>H<sub>60</sub>N<sub>2</sub>O<sub>15</sub> 1097.17

OM10942

1mg	\$94.50
2mg	\$178.50
5mg	\$420.00

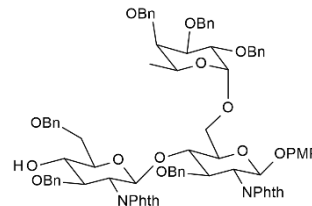


**4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-6-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside**

C<sub>63</sub>H<sub>60</sub>N<sub>2</sub>O<sub>18</sub> 1393.53

OM11004

1mg	\$78.80
2mg	\$147.00
5mg	\$341.30



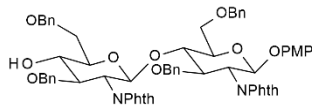
## Methoxypheny

## 4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>63</sub>H<sub>58</sub>N<sub>2</sub>O<sub>14</sub> 1067.14

OM10948

100mg	\$95.00
250mg	\$210.00
500mg	\$395.00

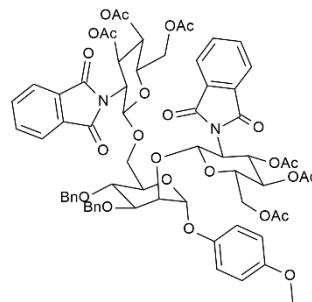


## 4-Methoxyphenyl 3,4-di-O-benzyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranoside

C<sub>67</sub>H<sub>68</sub>N<sub>2</sub>O<sub>25</sub> 1301.26

OM12468

1mg	\$84.00
2mg	\$157.50
5mg	\$367.50



## 4-Methoxyphenyl 4-O-(4-O-[[3-O-(2,4-di-O-[3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3,6-di-O-benzyl-a-D-mannopyranosyl]-4,6-O-benzylidene-b-D-glucopyranosyl]]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside

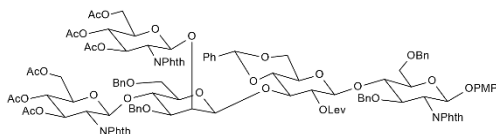
see 4-Methoxyphenyl 4-O-(4-O-[[3-O-(2,4-di-O-[3,4,6-tri-O-Ac-2-PhthN-b-D-Glc]-3,6-di-O-Bn-a-D-Man]-4,6-O-benzylidene-b-D-Glc]-3,6-di-O-Bn-2-PhthN-b-D-Glc)-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-PhthN-b-D-Glc, OM11013 on page 206

## 4-Methoxyphenyl 4-O-(3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-b-D-mannopyranosyl]-4,6-O-benzylidene-2-O-levulinoyl-b-D-glucopyranosyl)-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>113</sub>H<sub>113</sub>N<sub>3</sub>O<sub>38</sub> 2121.1

OM10992

1mg	\$195.00
2mg	\$300.00
5mg	\$475.00

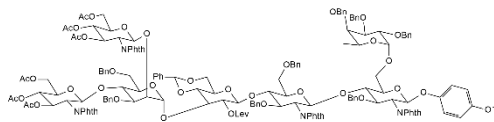


## 4-Methoxyphenyl 4-O-(4-O-[[3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-a-D-mannopyranosyl]-4,6-O-benzylidene-2-O-levulinoyl-b-D-glucopyranosyl]]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>181</sub>H<sub>160</sub>N<sub>4</sub>O<sub>48</sub> 2918.99

OM11012

1mg	\$94.50
2mg	\$178.50
5mg	\$420.00



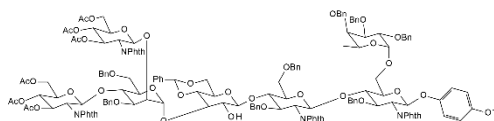
## 4-Methoxyphenyl 4-O-(4-O-[[3-O-(2,4-di-O-[3,4,6-tri-O-Ac-2-PhthN-b-D-Glc]-3,6-di-O-Bn-a-D-Man]-4,6-O-benzylidene-b-D-Glc]-3,6-di-O-Bn-2-PhthN-b-D-Glc)-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-PhthN-b-D-Glc

• 4-Methoxyphenyl 4-O-(4-O-[[3-O-(2,4-di-O-[3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3,6-di-O-benzyl-a-D-mannopyranosyl]-4,6-O-benzylidene-b-D-glucopyranosyl]]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside

C<sub>156</sub>H<sub>154</sub>N<sub>4</sub>O<sub>46</sub> 2820.89

OM11013

1mg	\$89.30
2mg	\$168.00
5mg	\$393.80



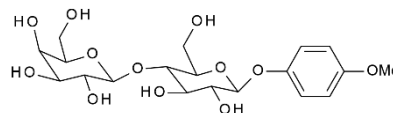
## 4-Methoxyphenyl 4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside

• 4-Methoxyphenyl b-D-lactose

[150412-80-9] C<sub>19</sub>H<sub>28</sub>O<sub>12</sub> 448.42

OM08847

100mg	\$50.00
250mg	\$100.00
500mg	\$150.00



## 4-Methoxyphenyl b-D-lactose

see 4-Methoxyphenyl 4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside, OM08847 on page 206

4-Methoxyphenyl 3-O-(methyl 5-acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosylonate)-2,6-di-O-benzyl-b-D-galactopyranoside

OM15711

5mg \$183.80  
10mg \$315.00  
25mg \$656.50



4-Methoxyphenyl 4-O-[6-O-(methyl 5-acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosylonate)-2,3-di-O-benzyl-b-D-galactopyranosyl]-2,3,6-tri-O-benzyl-b-D-glucopyranoside

C<sub>74</sub>H<sub>85</sub>NO<sub>24</sub> 1372.46

OM15734

1mg \$157.50  
2mg \$262.50  
5mg \$577.50



4-Methoxyphenyl 6-O-(methyl 5-acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosylonate)-2,3-di-O-benzyl-b-D-galactopyranoside

C<sub>47</sub>H<sub>57</sub>NO<sub>19</sub> 939.95

OM15709

5mg \$183.80  
10mg \$315.00  
25mg \$577.50



4-Methoxyphenyl 4-O-[6-O-(methyl 5-acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-b-D-galacto-2-nonulopyranosylonate)-2,3-di-O-benzyl-b-D-galactopyranosyl]-2,3,6-tri-O-benzyl-b-D-glucopyranoside

OM15736

1mg \$183.80  
2mg \$315.00  
5mg \$656.50



4-Methoxyphenyl 6-O-(methyl 5-acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-b-D-galacto-2-nonulopyranosylonate)-2,3-di-O-benzyl-b-D-galactopyranoside

C<sub>47</sub>H<sub>59</sub>NO<sub>19</sub> 941.97

OM15712

5mg \$262.50  
10mg \$472.50  
25mg \$1050.00



4-Methoxyphenyl 3-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-2-azido-4,6-O-benzylidene-2-deoxy-b-D-galactopyranoside

OM34877

Price On Application



4-Methoxyphenyl 3-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-2-azido-4,6-O-benzylidene-2-deoxy-b-D-galactopyranoside

see [Gal\[2346Ac\]b\(1-3\)GalN3\[46Bzd\]-b-MP, OG60597 on page 100](#)

4-Methoxyphenyl 3-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-2-azido-4,6-O-benzylidene-2-deoxy-b-D-glucopyranoside

see [Gal\[2346Ac\]b\(1-3\)GlcN3\[46Bzd\]-b-MP, OG60595 on page 100](#)

4-Methoxyphenyl 3-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-4,6-O-benzylidene-2-deoxy-2-phthalimido-b-D-glucopyranoside

see [Gal\[2346Ac\]b\(1-3\)GlcNPhth\[46Bzd\]-b-MP, OG60596 on page 101](#)

4-Methoxyphenyl 4-O-[3-O-(methyl 5-acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosylonate)-2,6-di-O-benzyl-b-D-galactopyranosyl]-2,3,6-tri-O-benzyl-b-D-glucopyranoside

C<sub>74</sub>H<sub>85</sub>NO<sub>24</sub> 1372.46

OM15735

1mg \$131.30  
2mg \$241.50  
5mg \$525.00



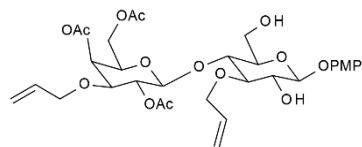
## Methoxypheny

## 4-Methoxyphenyl 4-O-(2,4,6-tri-O-acetyl-3-O-allyl-b-D-galactopyranosyl)-3-O-allyl-b-D-glucopyranoside

C<sub>31</sub>H<sub>42</sub>O<sub>15</sub> 654.66

OM10979

1mg	\$195.00
2mg	\$350.00
5mg	\$625.00

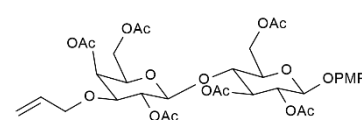


## 4-Methoxyphenyl 2,3,6-tri-O-acetyl-4-O-(2,4,6-tri-O-acetyl-3-O-allyl-b-D-galactopyranosyl)-b-D-glucopyranoside

C<sub>34</sub>H<sub>44</sub>O<sub>18</sub> 740.7

OM10978

1mg	\$95.00
2mg	\$170.00
5mg	\$300.00

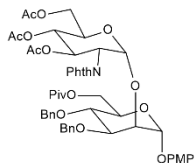


## 4-Methoxyphenyl 2-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-a-D-glucopyranosyl)-3,4-di-O-benzyl-6-O-pivaloyl-a-D-mannopyranoside

C<sub>52</sub>H<sub>57</sub>NO<sub>17</sub> 968.01

OM10945

100mg	\$95.00
250mg	\$210.00
500mg	\$395.00

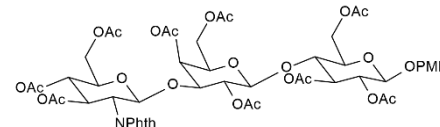


## 4-Methoxyphenyl 2,3,6-tri-O-acetyl-4-O-[2,4,6-tri-O-acetyl-3-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-b-D-galactopyranosyl]-b-D-glucopyranoside

C<sub>51</sub>H<sub>59</sub>NO<sub>27</sub> 1118

OM10983

1mg	\$157.50
2mg	\$262.50
5mg	\$525.00



## 4-Methoxyphenyl 3-O-(3,4,6-Tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-2,4,6-tri-O-benzyl-b-D-galactopyranoside

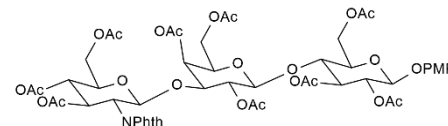
see *GlcNPhth[346Ac]b(1-3)Gal[246Bn]-b-MP, OG60594* on page 124

## 4-Methoxyphenyl 2,3,6-tri-O-acetyl-4-O-[2,4,6-tri-O-acetyl-3-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-b-D-galactopyranosyl]-b-D-glucopyranoside

C<sub>51</sub>H<sub>59</sub>NO<sub>27</sub> 1118

OM10985

5mg	\$95.00
10mg	\$175.00
25mg	\$315.00

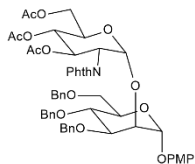


## 4-Methoxyphenyl 2-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-a-D-glucopyranosyl)-3,4,6-tri-O-benzyl-a-D-mannopyranoside

C<sub>54</sub>H<sub>55</sub>NO<sub>16</sub> 974.01

OM10946

100mg	\$95.00
250mg	\$210.00
500mg	\$395.00



## 4-Methoxyphenyl 2,4,6-Tri-O-benzoyl-3-O-(methyl 5-Acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosonate)-b-D-galactopyranoside

see *Neu5Ac[1Me,4789Ac]a(2-3)Gal[246Bz]-b-MP, ON60604* on page 231

## 4-Methoxyphenyl 2,4,6-Tri-O-benzoyl-3-O-(methyl 5-Acetoxyacetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosonate)-b-D-galactopyranoside

see *Neu5GcAc[1Me,4789Ac]a(2-3)Gal[246Bz]-b-MP, ON60603* on page 231

**4-Methoxyphenyl 2,3,6-tri-O-benzyl-4-O-(2,3-di-O-benzyl-b-D-galactopyranosyl)-b-D-glucopyranoside**C<sub>54</sub>H<sub>58</sub>O<sub>12</sub> 899.03

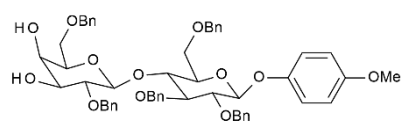
OM15740

50mg	\$262.50
100mg	\$420.00
250mg	\$787.50

**4-Methoxyphenyl 2,3,6-tri-O-benzyl-4-O-(2,6-di-O-benzyl-b-D-galactopyranosyl)-b-D-glucopyranoside**[358681-61-5] C<sub>54</sub>H<sub>58</sub>O<sub>12</sub> 899.03

OM08849

50mg	\$89.50
100mg	\$158.00
250mg	\$262.50

**4-Methoxyphenyl 4-O-(2,3,6-tri-O-benzyl-b-D-galactopyranosyl)-2,3,6-tri-O-benzyl-b-D-glucopyranoside**

• LacMP 4'-OH, per OBn

[150412-81-0] C<sub>61</sub>H<sub>64</sub>O<sub>12</sub> 989.15

OG60617

100mg	\$43.00
250mg	\$86.00
500mg	\$150.00

**4-Methoxyphenyl 4-O-(2,4,6-tri-O-benzyl-b-D-galactopyranosyl)-2,3,6-tri-O-benzyl-b-D-glucopyranoside**[717132-49-5] C<sub>61</sub>H<sub>64</sub>O<sub>12</sub> 989.15

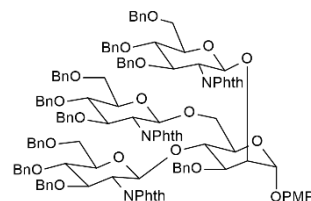
OG60618

100mg	\$45.00
250mg	\$90.00
500mg	\$157.00

**4-Methoxyphenyl 2,4,6-tri-O-(3,4,6-tri-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-a-D-mannopyranoside**C<sub>125</sub>H<sub>117</sub>N<sub>3</sub>O<sub>25</sub> 2061.27

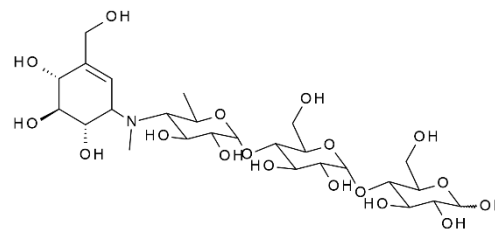
OM10952

5mg	\$94.50
10mg	\$157.50
25mg	\$315.00

**N-Methyl acarbose**C<sub>28</sub>H<sub>45</sub>NO<sub>18</sub> 659.63

OM10147

10mg	\$2100.00
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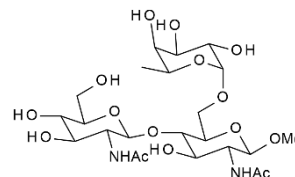
**Methyl 2-acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-6-O-(a-L-fucopyranosyl)-b-D-glucopyranoside**

• GlcNAc-b,1-4-[Fuc-a,1-6]GlcNAc-b-O-Me

[97242-84-7] C<sub>23</sub>H<sub>40</sub>N<sub>2</sub>O<sub>15</sub> 584.57

OM06834

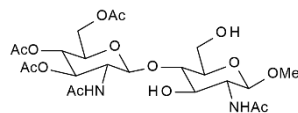
1mg	\$66.00
2mg	\$100.00
5mg	\$200.00



**Methylacetam****Methyl 2-acetamido-4-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)-2-deoxy-b-D-glucopyranoside**[97242-82-5] C<sub>23</sub>H<sub>38</sub>N<sub>2</sub>O<sub>14</sub> 564.54

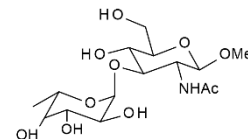
OM04775

10mg	\$157.50
25mg	\$262.50
50mg	\$399.00

**Methyl 2-acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-b-D-glucopyranoside**[169151-24-0] C<sub>15</sub>H<sub>27</sub>NO<sub>10</sub> 381.38

OM06115

2mg	\$105.00
5mg	\$183.80
10mg	\$315.00

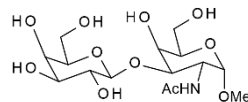
**Methyl 2-acetamido-2-deoxy-4,6-anisolydene-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranoside**see *Methyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-4,6-O-(4-methoxybenzylidene)-a-D-galactopyranoside, OM05363 on page 212***Methyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside**

- Gal-b-1,3-GalNAc-a-OMe
- a-Methyl T-antigen

[75669-79-3] C<sub>15</sub>H<sub>27</sub>NO<sub>11</sub> 397.38

OM04746

1mg	\$94.50
2mg	\$157.50
5mg	\$262.50

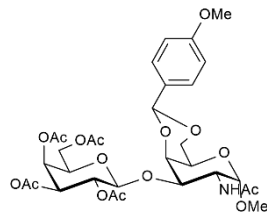
**Methyl 2-acetamido-2-deoxy-4,6-anisolydene-3-O-[b-D-(2,3,4,6-tetra-O-acetyl) galactopyranosyl]-a-D-galactopyranoside**

- Methyl 2-(acetylamino)-2-deoxy-4,6-O-[(4-methoxyphenyl)methylene]-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranoside

[316139-74-9] C<sub>31</sub>H<sub>41</sub>NO<sub>16</sub> 683.65

OM16467

5mg	\$109.90
10mg	\$199.90
25mg	\$363.50

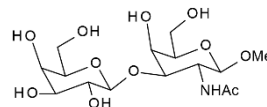
**Methyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-galactopyranoside**

- Galb1-3GalNAcb1-OMe

[88274-25-3] C<sub>15</sub>H<sub>27</sub>NO<sub>11</sub> 397.38

OM05013

1mg	\$85.00
2mg	\$150.00
5mg	\$250.00

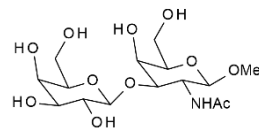
**Methyl 2-acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside**see *Lewis X trisaccharide methyl glucoside, OL04770 on page 177***Methyl 2-acetamido-2-deoxy-4-O-(a-L-fucopyranosyl)-3-O-(b-D-galactopyranosyl)-b-D-glucopyranoside**see *Lewis A trisaccharide methyl glycoside, OL05746 on page 175***Methyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-galactopyranoside**

- b-Methyl T-antigen

C<sub>15</sub>H<sub>27</sub>NO<sub>11</sub> 397.38

OM31769

1mg	\$195.00
2mg	\$310.00
5mg	\$550.00



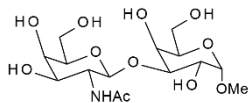
**Methyl 3-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-a-D-galactopyranoside**

• GalNAc-b-1,3-Gal-a-OMe

[109303-71-1] C<sub>15</sub>H<sub>27</sub>NO<sub>11</sub> 397.38

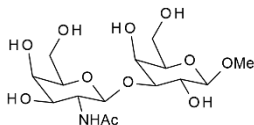
OM04745

1mg	\$295.00
2mg	\$540.00
5mg	\$1275.00

**Methyl 3-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-b-D-galactopyranoside**C<sub>15</sub>H<sub>27</sub>NO<sub>11</sub> 397.36

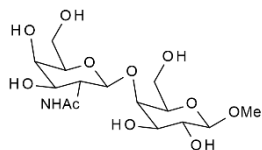
OM10442

1mg	\$94.50
2mg	\$157.50
5mg	\$262.50

**Methyl 4-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-b-D-galactopyranoside**C<sub>15</sub>H<sub>27</sub>NO<sub>11</sub> 397.38

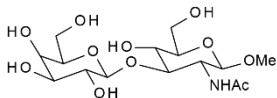
OM11511

5mg	\$110.30
10mg	\$178.50
25mg	\$367.50

**Methyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-glucopyranoside**[100836-88-2] C<sub>15</sub>H<sub>27</sub>NO<sub>11</sub> 397.38

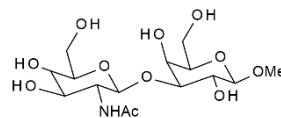
OM04773

2mg	\$110.00
5mg	\$225.00
10mg	\$425.00

**Methyl 3-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-b-D-galactopyranoside**[93253-17-9] C<sub>15</sub>H<sub>27</sub>NO<sub>11</sub> 397.38

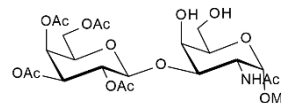
OM05005

1mg	\$89.30
2mg	\$157.50
5mg	\$420.00

**Methyl 2-acetamido-2-deoxy-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranoside**[141342-92-9] C<sub>23</sub>H<sub>35</sub>NO<sub>15</sub> 565.52

OM16468

5mg	\$109.90
10mg	\$199.90
25mg	\$363.50

**Methyl 2-acetamido-2-deoxy-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-glucopyranoside**[62998-28-1] C<sub>23</sub>H<sub>35</sub>NO<sub>15</sub> 565.52

OM138652

Price On Application

**Methyl 2-acetamido-3-O-(a-D-galactopyranosyl)-2-deoxy-a-D-galactopyranoside**

OM64804

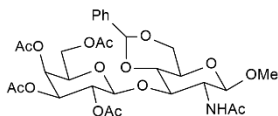
Price On Application



**Methylacetam****Methyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-O-benzylidene-2-deoxy-b-D-glucopyranoside**[162427-96-5] C<sub>30</sub>H<sub>39</sub>NO<sub>15</sub> 653.64

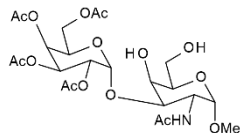
OM04777

5mg	\$94.50
10mg	\$157.50
25mg	\$262.50

**Methyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-a-D-galactopyranosyl)-2-deoxy-a-D-galactopyranoside**C<sub>23</sub>H<sub>35</sub>NO<sub>15</sub> 565.52

OM04774

Price On Application

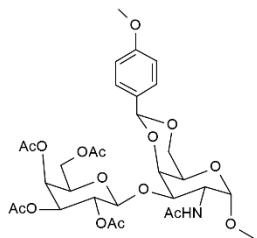
**Methyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-4,6-O-(4-methoxybenzylidene)-a-D-galactopyranoside**

• Methyl 2-acetamido-2-deoxy-4,6-anisolydene-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranoside

[316139-74-9] C<sub>31</sub>H<sub>41</sub>NO<sub>16</sub> 683.65

OM05363

5mg	\$94.50
10mg	\$262.50
25mg	\$420.00

**Methyl 2-(acetylamino)-2-deoxy-4,6-O-[(4-methoxyphenyl)methylene]-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranoside**

see Methyl 2-acetamido-2-deoxy-4,6-anisolydene-3-O-[b-D-(2,3,4,6-tetra-O-acetyl)galactopyranosyl]-a-D-galactopyranoside, OM16467 on page 210

**Methyl 2-O-allyl-4,6-O-benzylidene-3-O-(2',3',4',6'-tetra-O-acetyl-a-D-mannopyranosyl)-a-D-mannopyranoside**[82185-93-1] C<sub>31</sub>H<sub>40</sub>O<sub>15</sub> 652.64

OM16469

100mg	\$111.00
250mg	\$200.00
500mg	\$365.00

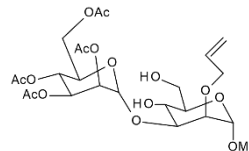


Refs: Carb. Res, 103, 15 (1982)

**Methyl 2-O-allyl-3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-a-D-mannopyranoside**[81555-75-1] C<sub>24</sub>H<sub>36</sub>O<sub>15</sub> 564.53

OM06527

50mg	\$94.50
100mg	\$158.00
250mg	\$262.50

**a-Methyl T-antigen**

see Methyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside, OM04746 on page 210

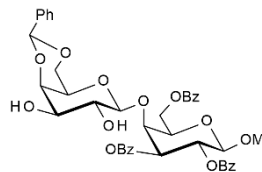
**b-Methyl T-antigen**

see Methyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-galactopyranoside, OM31769 on page 210

**Methyl 4-O-[4,6-O-(benzylidene)-b-D-galactopyranosyl] b-D-galactopyranoside tribenzoate**

OM30775

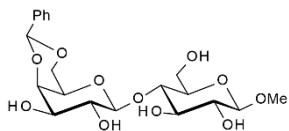
500mg	\$790.00
1g	\$1312.50
2g	\$2100.00



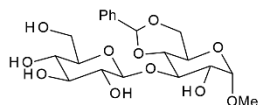


**Methyl 4-O-[4,6-O-benzylidene)-b-D-galactopyranosyl] b-D-glucopyranoside**[56865-31-7] C<sub>20</sub>H<sub>28</sub>O<sub>11</sub> 444.43

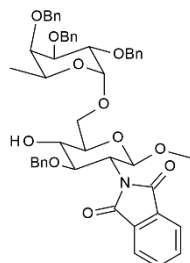
OM30780

500mg \$525.00  
1g \$945.00  
2g \$1785.00**Methyl 4,6-O-benzylidene-3-O-(b-D-glucopyranoside)-a-D-glucopyranoside**[72656-05-4] C<sub>20</sub>H<sub>28</sub>O<sub>11</sub> 444.43

OM05188

5mg \$94.50  
10mg \$157.50  
25mg \$262.50**Methyl 3-O-benzyl-6-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside**[97242-86-9] C<sub>49</sub>H<sub>51</sub>NO<sub>11</sub> 829.93

OM04898

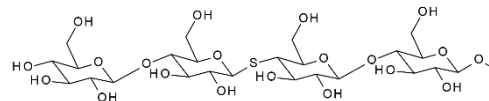
2mg \$105.00  
5mg \$189.00  
10mg \$341.30**Methyl b-D-cellobioside**[7216-73-1] C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

OM158903

Price On Application

**Methyl (4S)-b-cellobiosyl-4-thio-b-cellobioside**[205451-26-9] C<sub>28</sub>H<sub>44</sub>O<sub>20</sub>S 696.67

OM29990

5mg \$1044.80  
10mg \$1653.80  
25mg \$2572.50**Methyl cellulose - Viscosity 40000 cPs**

[9004-67-5]

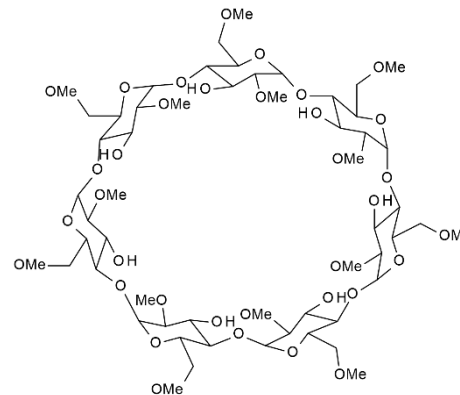
OM143934

1Kg \$250.00  
2Kg \$350.00  
5Kg \$450.00**Methyl-b-cyclodextrin**

• b-Cyclodextrin methyl ethers

[128446-36-6] C<sub>58</sub>H<sub>98</sub>O<sub>35</sub> 1331.36

OM11037

25g \$50.00  
50g \$85.00  
100g \$135.00

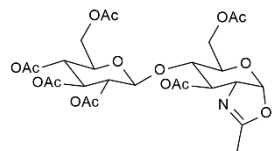
## Methyldiacet

## 2-Methyl-(3,6-di-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-1,2-dideoxy-a-D-glucopyranosyl)-[2,1-d]-2-oxazoline

C<sub>28</sub>H<sub>35</sub>NO<sub>16</sub> 617.55

OM10958

1mg	\$94.50
2mg	\$178.50
5mg	\$420.00

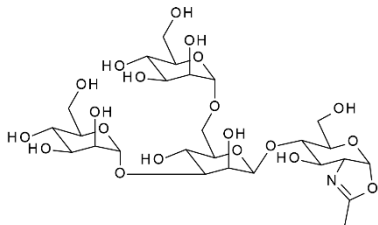


## 2-Methyl-(4-O-(3,6-di-O-a-D-mannopyranosyl)-b-D-mannopyranosyl)-1,2-dideoxy-a-D-glucopyranosyl)-[2,1-d]-2-oxazoline

C<sub>28</sub>H<sub>43</sub>NO<sub>20</sub> 689.61

OM10956

1mg	\$99.80
2mg	\$189.00
5mg	\$446.30



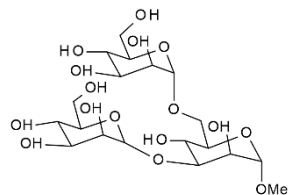
## Methyl 3,6-di-O-(a-D-mannopyranosyl)-a-D-mannopyranoside

- Man-a-1-6[Man-a-1-3]Man-a-OMe
- 1,3-a-1,6-a-D-Mannotriose a-methyl glycoside

[68601-74-1] C<sub>19</sub>H<sub>34</sub>O<sub>16</sub> 518.46

OM04549

5mg	\$200.00
10mg	\$350.00
25mg	\$750.00



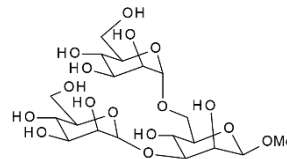
Refs: Mandal DK, Kishore N, Brewer CF, Biochemistry 1994, Vol33, p1149-1156

## Methyl 3,6-di-O-(a-D-mannopyranosyl)-b-D-mannopyranoside

C<sub>19</sub>H<sub>34</sub>O<sub>16</sub> 518.46

OM06994

Price On Application



## Methyl 2-O-a-L-fucopyranosyl-b-D-galactoside

[37288-45-2]

OM07644

Price On Application



## Methyl b1-6-galactobiose

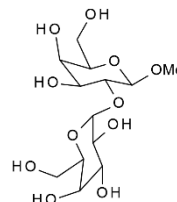
see Methyl 6-O-(b-D-galactopyranosyl)-b-D-galactopyranoside, OM10180 on page 215

## Methyl 2-O-(a-D-galactopyranosyl)-b-D-galactopyranoside

C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

OM11512

Price On Application



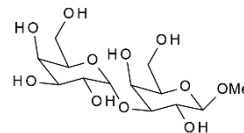
## Methyl 3-O-(a-D-galactopyranosyl)-b-D-galactopyranoside

- Gal-a-1-3-Gal-b-1-O-Me

C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

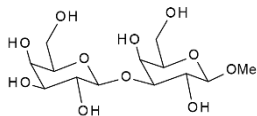
OM10441

5mg	\$157.50
10mg	\$283.50
25mg	\$499.00



**Methyl 3-O-(b-D-galactopyranosyl)-b-D-galactopyranoside**[81131-46-6] C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

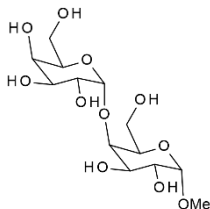
OM05003

25mg \$1750.00  
50mg \$2750.00  
100mg \$3500.00**Methyl 4-O-(a-D-galactopyranosyl)-a-D-galactopyranoside**

• Gal-a-1,4-Gal-OMe

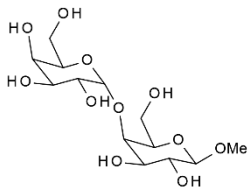
[67145-39-5] C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

OM06087

50mg \$1312.50  
100mg \$1575.00**Methyl 4-O-(a-D-galactopyranosyl)-b-D-galactopyranoside**C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

OM09283

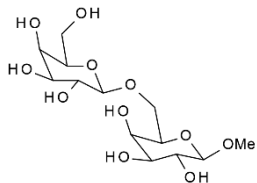
Price On Application

**Methyl 6-O-(b-D-galactopyranosyl)-b-D-galactopyranoside**

• Methyl b1-6-galactobiose

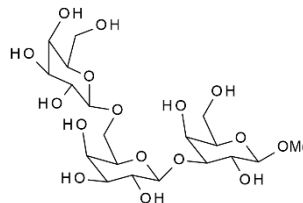
C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

OM10180

1mg \$630.00  
2mg \$1050.00  
5mg \$1890.00**Methyl 3-O-[(6-O-b-D-galactopyranosyl)-b-D-galactopyranosyl]-b-D-galactopyranoside**C<sub>19</sub>H<sub>34</sub>O<sub>16</sub> 518.46

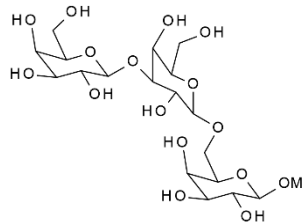
OM10181

Price On Application

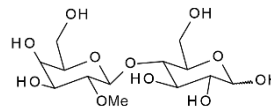
**Methyl 6-O-[(3-O-b-D-galactopyranosyl)-b-D-galactopyranosyl]-b-D-galactopyranoside**C<sub>19</sub>H<sub>34</sub>O<sub>16</sub> 518.46

OM10182

Price On Application

**4-O-(2-O-Methyl-b-D-galactopyranosyl)-D-glucopyranose**[77667-98-2] C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

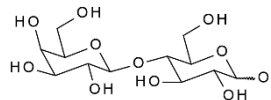
OM05010

1mg \$78.80  
2mg \$105.00  
5mg \$157.50**Methyl 4-O-(b-D-galactopyranosyl)-D-glucopyranoside**

• Methyl b-D-lactoside

[7216-69-5] C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

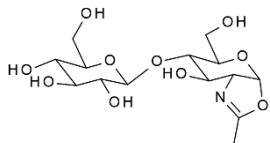
OM06523

50mg \$58.00  
100mg \$105.00  
250mg \$172.50

**Methylglucop****2-Methyl-(4-O-b-D-glucopyranosyl)-1,2-dideoxy-a-D-glucopyrano-[2,1-d]-2-oxazoline**C<sub>14</sub>H<sub>23</sub>NO<sub>10</sub> 365.33

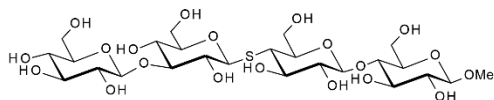
OM10959

1mg	\$65.00
2mg	\$120.00
5mg	\$275.00

**Methyl 3-O-(b-D-glucopyranosyl)-a-D-glucopyranoside**see *Methyl a-D-laminaribioside*, OM04910 on page 217**Methyl-O-b-D-glucopyranosyl-(1-3)-S-b-D-glucopyranosyl-(1-4)-O-4-thio-b-D-glucopyranosyl-(1-4)-b-D-glucopyranoside**[187161-22-4] C<sub>25</sub>H<sub>44</sub>O<sub>20</sub>S 696.67

OM30774

50mg	\$945.00
100mg	\$1575.00
250mg	\$3150.00

**O-(Methyl b-d-glucopyranosyluronate)-(1,3)-2-amino-2-deoxy-D-galactopyranose HCl**

• Chondrosin methyl ester HCl

OM15287

10g \$2000.00

**O-(Methyl b-D-glucopyranosyluronate)-(1,3)-2-deoxy-2-trichloroacetamido-D-galactopyranose**

OM15295

1g	\$210.00
2g	\$315.00
5g	\$656.30

**4-O-Methyl-D-glucurono-D-xylan**

[9062-57-1]

OM45934

500mg	\$70.00
1g	\$120.00
2g	\$196.00

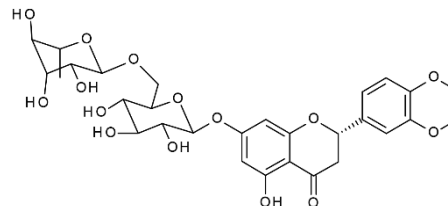
**Methyl 2,2',3',4,4',6,6'-hepta-O-acetyl-3-O-(b-D-glucopyranosyl)-a-D-glucopyranoside**see *Methyl a-D-laminaribioside heptaacetate*, OM04934 on page 217**Methyl hesperidine**

• 5,7-Dihydroxy-3',4'-Dimethoxyflavanone-7-O-(6-O-a-L-rhamnopyranosyl)-b-D-glucopyranoside

[11013-97-1] C<sub>29</sub>H<sub>36</sub>O<sub>15</sub> 624.59

OM08131

10g	\$84.00
25g	\$157.50
50g	\$262.50



Refs: Nippon Kagaku Zasshi, 1958, 79, p733

**Methyl 2-hydroxyethyl cellulose**• Hydroxy Ethyl Methyl Cellulose  
• HEMC

[9032-42-2]

OM30632

250g \$77.50

**Methyl b-D-lactoside**see *Methyl 4-O-(b-D-galactopyranosyl)-D-glucopyranoside*, OM06523 on page 215

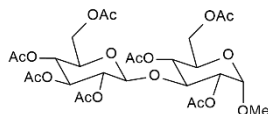
**Methyl a-D-lamaribioside heptaacetate**

- Methyl 2,4,6-tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-a-D-glucopyranoside
- Methyl 2,2',3',4,4',6,6'-hepta-O-acetyl-3-O-(b-D-glucopyranosyl)-a-D-glucopyranoside

[7322-42-1] C<sub>27</sub>H<sub>38</sub>O<sub>18</sub> 650.58

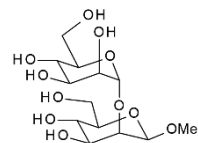
OM04934

5mg	\$94.50
10mg	\$157.50
25mg	\$262.50

**Methyl 2-O-(a-D-mannopyranosyl)-b-D-mannopyranoside**C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

OM06990

Price On Application

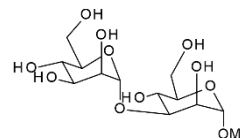
**Methyl 3-O-(a-D-mannopyranosyl)-a-D-mannopyranoside**

- Man-a-1-3-Man-a-OMe

[72028-62-7] C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

OM06494

10mg	\$94.50
25mg	\$157.50
50mg	\$262.50

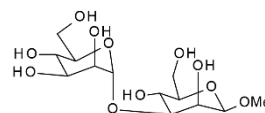


Refs: Vella GJ, et al, Can. J. Biochem. 1984, 62, 409

**Methyl 3-O-(a-D-mannopyranosyl)-b-D-mannopyranoside**C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

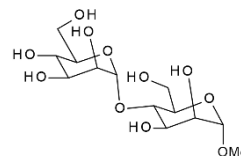
OM06989

Price On Application

**Methyl 4-O-(a-D-mannopyranosyl)-a-D-mannopyranoside**[70427-91-7] C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

OM05045

1mg	\$550.00
2mg	\$950.00
5mg	\$1300.00

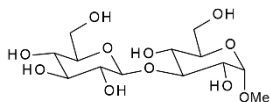
**Methyl a-D-lamaribioside**

- Methyl 3-O-(b-D-glucopyranosyl)-a-D-glucopyranoside

[7115-19-7] C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

OM04910

50mg	\$131.50
100mg	\$210.00
250mg	\$472.50



Refs: Noguchi K, Okuyama K, Kitamura S, Takeo K, Carbohydrate Res, 1992, 237, p33

**Methyl a-maltohexaoside**

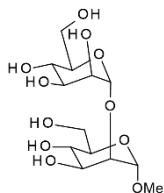
OM46034

5mg	\$4750.00
10mg	\$7000.00
25mg	\$9625.00

**Methyl 2-O-(a-D-mannopyranosyl)-a-D-mannopyranoside**[59571-75-4] C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

OM06526

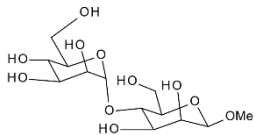
1mg	\$85.00
2mg	\$150.00
5mg	\$325.00



**Methylmannop****Methyl 4-O-( $\alpha$ -D-mannopyranosyl)- $\beta$ -D-mannopyranoside**C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

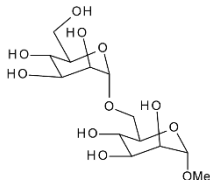
Price On Application

OM06991

**Methyl 6-O-( $\alpha$ -D-mannopyranosyl)- $\alpha$ -D-mannopyranoside**[78962-39-7] C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

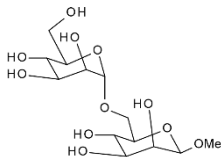
OM06992

1mg	\$157.50
2mg	\$262.50
5mg	\$525.00

**Methyl 6-O-( $\alpha$ -D-mannopyranosyl)- $\beta$ -D-mannopyranoside**C<sub>13</sub>H<sub>24</sub>O<sub>11</sub> 356.32

OM06993

1mg	\$315.00
2mg	\$525.00
5mg	\$1050.00

**3-O-Methyl-4-O-(3-O-methyl- $\alpha$ -D-mannopyranosyl)- $\beta$ -D-mannopyranoside**

OM159160

100mg	\$1750.00
250mg	\$3125.00
500mg	\$4900.00

**Methyl protodioscin**[54522-52-0] C<sub>52</sub>H<sub>86</sub>O<sub>22</sub> 1063.23

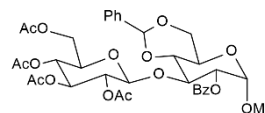
OM73875

5mg	\$57.00
10mg	\$100.00
25mg	\$200.00

**Methyl 3-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)-4,6-O-benzylidene-2-O-benzoyl- $\alpha$ -D-glucopyranoside**[71238-93-2] C<sub>35</sub>H<sub>40</sub>O<sub>16</sub> 716.68

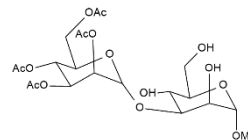
OM04907

10mg	\$84.00
25mg	\$157.50
50mg	\$262.50

**Methyl 3-O-(2,3,4,6-tetra-O-acetyl- $\alpha$ -D-mannopyranosyl)- $\alpha$ -D-mannopyranoside**C<sub>21</sub>H<sub>32</sub>O<sub>15</sub> 524.47

OM07258

Price On Application

**Methyl 2,4,6-tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- $\alpha$ -D-glucopyranoside**see *Methyl  $\alpha$ -D-laminaribioside heptaacetate*, OM04934 on page 217

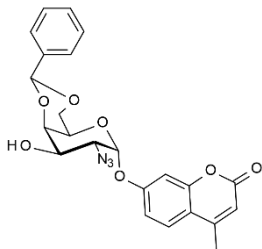
**4-Methylumbelliferyl 2-azido-2-deoxy-4,6-O-phenylmethylene-a-D-galactopyranoside**

• 7-[[2-Azido-2-deoxy-4,6-O-(phenylmethylene)-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranosyl]oxy]-4-methyl-2H-1-benzopyran-2-one

[1147438-59-2] C<sub>23</sub>H<sub>21</sub>N<sub>3</sub>O<sub>7</sub> 451.43

OM16472

5mg	\$150.00
10mg	\$272.60
25mg	\$496.00



Refs: Chang, S. et. al, Carbohyd. Res, 344, 432 (2009)

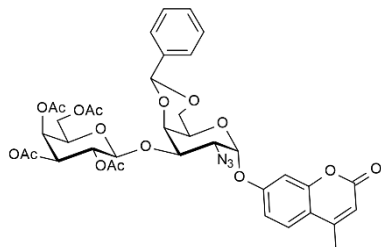
**4-Methylumbelliferyl 2-azido-2-deoxy-3-O-(tetra-O-acetyl-b-D-galactopyranosyl)-4,6-O-benzylidene-a-D-galactopyranoside**

• 7-[[2-Azido-2-deoxy-4,6-O-[(S)-phenylmethylene]-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranosyl]oxy]-4-methyl-2H-1-benzopyran-2-one

[1147438-61-6] C<sub>37</sub>H<sub>39</sub>N<sub>3</sub>O<sub>16</sub> 781.72

OM16471

2mg	\$149.90
5mg	\$272.60
10mg	\$495.50

**Methyl b1-4-D-xylobioside**

• Methyl 4-O-(b-D-xylopyranosyl)-b-D-xylopyranoside

[69973-32-6] C<sub>11</sub>H<sub>20</sub>O<sub>9</sub> 296.27

OM58521

5mg	\$69.40
10mg	\$111.00

**Methyl 4-O-(b-D-xylopyranosyl)-b-D-xylopyranoside**

see Methyl b1-4-D-xylobioside, OM58521 on page 219

**MFLNH I**

see Monofucosyl-lacto-N-hexaose I, OM12189 on page 222

**MFLNH II**

see Monofucosyl-lacto-N-hexaose II, OM31771 on page 222

**MFpLNH I**

see Monofucosyl-para-lacto-N-hexaose I, OM05902 on page 222

**MFpLNH I**

see Monofucosyl-para-lacto-N-hexaose II, OM31772 on page 222

**MFpLNnH IV**

see Monofucosyl-para-lacto-N-neohexaose IV, OM31773 on page 223

**M3N2 N-Glycan**

see Man-3a N-Glycan, OM10175 on page 190

**M5A1B N-Glycan**

see Hybrid N-Glycan, OH15859 on page 155

**M3N2 Glycan, 2-AB labelled**

see Man-3 Glycan, 2-AB labelled, OM58594 on page 192

**MK-936**

see Avermectin B1, OA16898 on page 37

**MLA**

see Memantine lactose adduct, OM16466 on page 198

**MLFNH III**

see Monofucosyl-lacto-N-hexaose III, OM05898 on page 223

**Mogroside III**

[130567-83-8] C<sub>48</sub>H<sub>82</sub>O<sub>19</sub> 963.15

OM45008

2mg	\$80.00
5mg	\$150.00
10mg	\$250.00



**Mogrosidelll****Mogroside III A1**[88901-42-2] C<sub>48</sub>H<sub>82</sub>O<sub>19</sub> 963.15

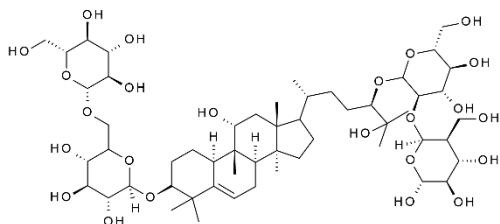
OM45009

2mg	\$120.00
5mg	\$260.00
10mg	\$450.00

**Mogroside IV**[89590-95-4] C<sub>54</sub>H<sub>92</sub>O<sub>24</sub> 1125.29

OM44167

10mg	\$150.00
25mg	\$225.00
50mg	\$375.00

**Mogroside IVa**[88901-41-1] C<sub>54</sub>H<sub>92</sub>O<sub>24</sub> 1125.29

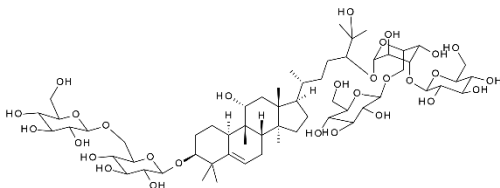
OM45010

2mg	\$120.00
5mg	\$260.00
10mg	\$450.00

**Mogroside V**[88901-36-4] C<sub>60</sub>H<sub>102</sub>O<sub>29</sub> 1287.43

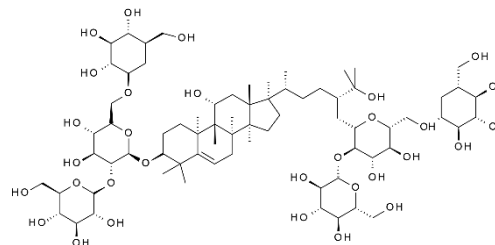
OM09974

50mg	\$65.00
100mg	\$110.00
250mg	\$190.00

**Mogroside VI**[89590-98-7] C<sub>54</sub>H<sub>92</sub>O<sub>24</sub> 1125.29

OM44168

1mg	\$350.00
2mg	\$560.00
5mg	\$1000.00

**Momordicoside A**[75801-95-5] C<sub>42</sub>H<sub>72</sub>O<sub>15</sub> 817.01

OM45799

2mg	\$140.00
5mg	\$250.00
10mg	\$400.00

**Momordicoside B**[75799-04-1] C<sub>47</sub>H<sub>80</sub>O<sub>19</sub> 949.13

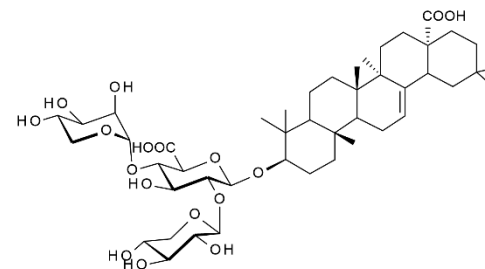
OM45800

Price On Application

**Momordin 1e**[96158-13-3] C<sub>48</sub>H<sub>72</sub>O<sub>17</sub> 897.05

OM29338

Price On Application



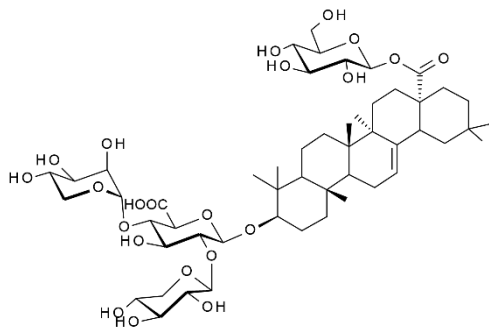
M



**Momordin 2e**[96158-12-2] C<sub>52</sub>H<sub>82</sub>O<sub>22</sub> 1059.19

OM29339

Price On Application

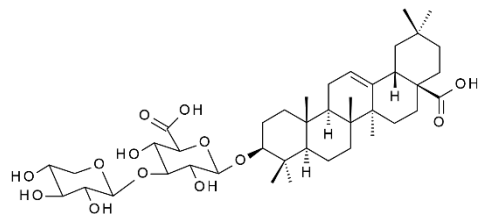
**Momordin 1c**

• (3b)-17-Carboxy-28-norolean-12-en-3-yl 3'-O-(b-D-xylopyranosyl)-b-D-glucuronide

[96990-18-0] C<sub>41</sub>H<sub>64</sub>O<sub>13</sub> 764.94

OM08142

25mg	\$100.00
50mg	\$178.50
100mg	\$310.00



Refs: Phytochemistry, 1988, 27, p3585

**Monoacetyl-a-cyclodextrin**

• Hexakis-(6-O-acetyl)-a-cyclodextrin

C<sub>48</sub>H<sub>72</sub>O<sub>36</sub> 1225.06

OM44645

Price On Application

**Monoacetyl-b-cyclodextrin**

• AcBCD

OM34954

1g	\$78.80
2g	\$136.50
5g	\$236.30

**6-Mono-tert-butyldimethylsilyl-a-cyclodextrin**C<sub>42</sub>H<sub>74</sub>O<sub>30</sub>Si 1087.1

OM44665

Price On Application

**6-Mono-tert-butyldimethylsilyl-γ-cyclodextrin,**C<sub>54</sub>H<sub>94</sub>O<sub>40</sub>Si 1542.27

OM44731

Price On Application

**6-Monodeoxy-6-monoamino-γ-cyclodextrin,**C<sub>48</sub>H<sub>81</sub>NO<sub>39</sub> 1296.14

OM44733

Price On Application

**Mono-(2,3-di-O-benzyl)-(2,3,6-tri-O-benzyl)-γ-cyclodextrin**C<sub>209</sub>H<sub>218</sub>O<sub>40</sub> 3369.94

OM44735

Price On Application

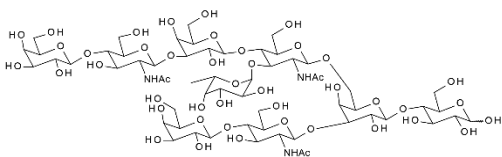


## Monofucosyli

## Monofucosyl (1-3)-iso-lacto-N-octaose

[692776-59-3] C<sub>60</sub>H<sub>101</sub>N<sub>3</sub>O<sub>45</sub> 1584.44

OM13723

100ug  
1mg\$315.00  
\$1575.00

## Monofucosyl (1-2)-iso-lacto-N-octaose I

OM64732

Price On Application



## Monofucosyl (1-2)-iso-lacto-N-octaose II

OM64733

Price On Application

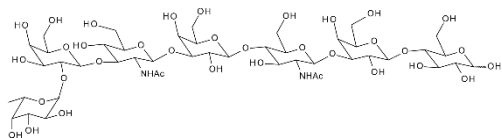


## Monofucosyl-para-lacto-N-hexaose I

- MFpLNH I
- Lewis c heptasaccharide linear

C<sub>46</sub>H<sub>78</sub>N<sub>2</sub>O<sub>35</sub> 1219.12

OM05902

250ug  
500ug  
1mg\$262.50  
\$210.00  
\$367.50

## Monofucosyllacto-N-hexaose I

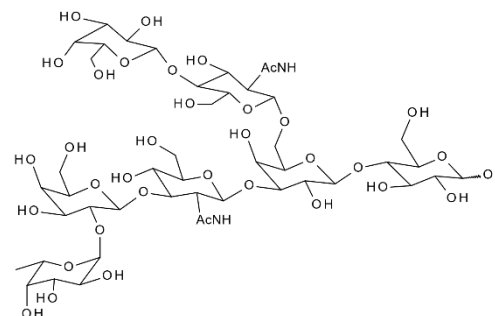
- MFLNH I
- Lewis c heptasaccharide branched

[341511-38-4] C<sub>46</sub>H<sub>78</sub>N<sub>2</sub>O<sub>35</sub> 1219.1

OM12189

100ug

\$263.00



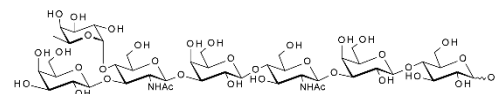
## Monofucosyl-para-lacto-N-hexaose II

- MFpLNH I
- Lewis a heptasaccharide linear

[115236-59-4] C<sub>46</sub>H<sub>78</sub>N<sub>2</sub>O<sub>35</sub> 1219.1

OM31772

Price On Application



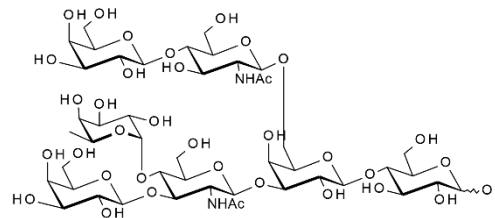
## Monofucosyllacto-N-hexaose II

- MFLNH II
- Lewis a heptasaccharide branched

[1240020-24-9] C<sub>46</sub>H<sub>78</sub>N<sub>2</sub>O<sub>35</sub> 1219.1

OM31771

Price On Application



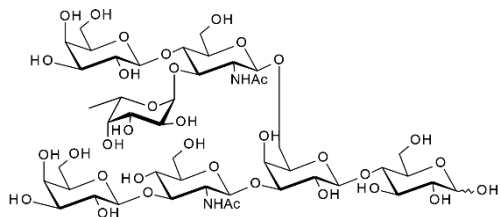
## Monofucosyllacto-N-hexaose III

• MLFNH III

[96656-34-7] C<sub>46</sub>H<sub>78</sub>N<sub>2</sub>O<sub>35</sub> 1219.12

OM05898

0.1mg	\$105.00
0.2mg	\$168.00
0.5mg	\$367.50

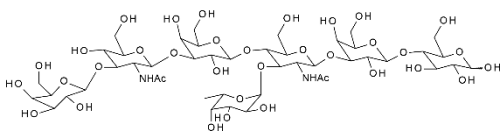


## Monofucosyl-para-lacto-N-hexaose IV

[115236-58-3] C<sub>46</sub>H<sub>78</sub>N<sub>2</sub>O<sub>35</sub> 1219.12

OM07520

500ug	\$900.00
1mg	\$1650.00



## Monofucosyllacto-N-neohexaose I

1219.1

OM58470

Price On Application



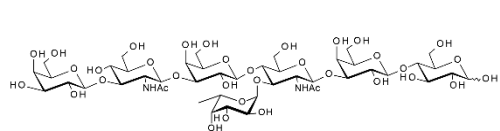
## Monofucosyl-para-lacto-N-neohexaose IV

• MFpLNnH IV

[115236-58-3] C<sub>46</sub>H<sub>78</sub>N<sub>2</sub>O<sub>35</sub> 1219.1

OM31773

Price On Application



## Monofucosyl, monosialyllacto-N-neohexaose-APD-HSA

OM03903

Price On Application



## Monofucosyl monosialyllacto-N-tetraose

see *Sialyllacto-N-fucopentaose V, OS03891* on page 254

## Monogalacto, fucosylated, biantennary N-linked glycan

see *GNA2 N-Glycan, OG28973* on page 139

## Monogalactosylated, asialo, bi-antennary N-linked glycan

see *G-NGA2 N-Glycan, ON10164* on page 139

## Monogalactosylated, core fucosylated, asialo, bi-antennary N-linked glycan

see *G-NGA2F N-Glycan, ON10168* on page 139

## 6-Monomesyl-gamma-cyclodextrin

C<sub>49</sub>H<sub>82</sub>SO<sub>42</sub> 1375.22

OM44732

Price On Application



## Monophosphoryl 3-deacyl Lipid A ammonium salt

[1699735-79-9] C<sub>82</sub>H<sub>155</sub>N<sub>2</sub>O<sub>20</sub>P·NH<sub>3</sub> 1537.11

OM157320

1mg	\$295.00
2mg	\$550.00
5mg	\$1250.00



## Monophosphoryl hexaacyl disaccharide

see *Lipid A monophosphoryl, OL29175* on page 179

**Monophosphor****Monophosphoryl Lipid A**see *Lipid A monophosphoryl*, OL29175 on page 179**Monosialoganglioside GM1**see *GM1-Ganglioside*, OG03918 on page 137**Mono-sialylated, galactosylated, core-fucosylated, bi-antennary N-linked glycan**see *A1F N-Glycan*, OA16145 on page 93**Monosialyl, difucosyllacto-N-hexaose I**

1656.5

OM58482

Price On Application

**Monosialyl, difucosyllacto-N-neohexaose**

1656.5

OM58483

Price On Application

**Monosialyllacto-N-hexaose**

1364.22

OM58485

Price On Application

**Monosialyllacto-N-hexaose II**

OM64734

Price On Application

**Monosialyllacto-N-hexaose III**

OM64735

Price On Application

**Monosialyllacto-N-neohexaose**

1364.22

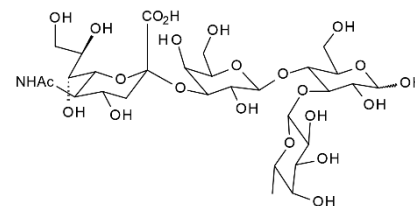
OM58492

Price On Application

**Monosialyllactose**C<sub>29</sub>H<sub>49</sub>NO<sub>23</sub> 779.69

OM03879

500ug	\$420.00
1mg	\$630.00
2mg	\$1050.00

**Monosialyl, monofucosyl-(1-2)-lacto-N-hexaose**

OM64736

Price On Application

**Monosialyl, monofucosyl-(1-3)-lacto-N-hexaose**

OM64693

Price On Application



**Monosialyl, monofucosyllacto-N-hexaose I**1510.36  
OM58491

Price On Application

**Mycothione** $C_{34}H_{58}N_4O_{24}S_2$  970.97  
OM58333

Price On Application

**Monosialyl, monofucosyllacto-N-neohexaose**1510.36  
OM58484

Price On Application

**NA2FB N-Glycan**[1598374-91-4]  $C_{76}H_{127}N_5O_{55}$  1990.82 20ug \$672.00  
ON10173**Mono-6-O-(p-toluenesulfonyl)-a-cyclodextrin**[32860-56-3]  $C_{43}H_{66}O_{32}S$  1127.03

OM11971

100mg \$184.00  
250mg \$342.50  
500mg \$475.00**NA2F N-Glycan**• FA2G2 N-Glycan  
• Asialo, galactosylated, fucosylated, bi-antennary N-linked glycan[1309851-94-2]  $C_{68}H_{114}N_4O_{50}$  1787.63 10ug \$341.30  
ON10170 20ug \$483.00**Mono-6-O-(p-toluenesulfonyl)-b-cyclodextrin**

• 6-O-(p-Toluenesulfonyl)-bCD

[67217-55-4]  $C_{49}H_{76}O_{37}S$  1289.17

OM11989

100mg \$85.00  
200mg \$140.00  
500mg \$225.00**NA3F N-Glycan**[115142-60-4]  $C_{82}H_{137}N_5O_{60}$  2152.96

ON28969

Price On Application

**Mycothiolsulfide - Stabilised with trifluoroacetic acid ammonium salt**[192126-76-4]  $C_{34}H_{58}N_4O_{24}S_2$  970.97

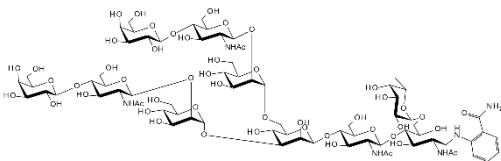
OM58332

1mg \$750.00  
2mg \$1300.00  
5mg \$3000.00

**NAFGlycanABI****NA2F Glycan, 2-AB labelled**

ON58601

Price On Application

**NA2G1F N-Glycan**

• FA2G1 N-glycan

ON15968

10ug  
20ug\$304.50  
\$430.60**NA2 N-Glycan**• Asialo, galactosylated, bi-antennary N-linked Glycan  
• A2G2 N-Glycan[71496-53-2]  $C_{62}H_{104}N_4O_{46}$  1641.49

ON10165

10ug  
20ug\$210.00  
\$315.00**NA2B N-Glycan**

• Asialo, galactosylated, bisected, bi-antennary N-linked glycan,

[84632-71-3]  $C_{70}H_{117}N_5O_{51}$  1844.68

ON15857

10ug  
20ug\$787.50  
\$1155.00**NA3 N-Glycan**

• A3G3 N-Glycan

[82867-73-0]  $C_{76}H_{127}N_6O_{56}$  2006.82

ON10171

10ug  
20ug\$262.50  
\$378.00**NA4 N-Glycan**

• A4G4 N-Glycan

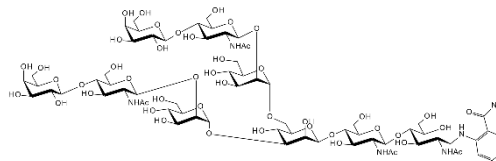
[82867-74-1]  $C_{90}H_{150}N_6O_{66}$  2372.15

ON10174

10ug  
20ug\$340.00  
\$580.00**NA2 Glycan, 2-AB labelled**

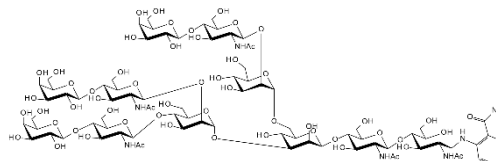
ON58600

Price On Application

**NA3 Glycan, 2-AB labelled**

ON58602

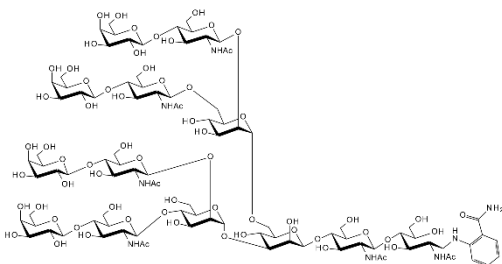
Price On Application



## NA4 Glycan, 2-AB labelled

ON58603

Price On Application



## Naringenin 7-Rhamnoglucoside

see *Naringin dihydrate*, ON106318 on page 227

## Naringenin 7-Rhamnoglucoside

see *Naringin hydrate*, ON04250 on page 227

## Naringin dihydrate

- Naringenin 7-Rhamnoglucoside
- 4,5,7-Trihydroxyflavanone 7-rhamnoglucoside

[10236-47-2]  $C_{27}H_{32}O_{14} \cdot 2H_2O$  616.57

ON106318

Price On Application



## Naringin dihydrochalcone

[18916-17-1]  $C_{27}H_{34}O_{14}$  582.55

ON08133

10g	\$50.00
25g	\$85.00
50g	\$150.00

Refs: *EsSENze Deriv. Agrum*, 1991, 61, p50

## Naringin 4'-O-glucoside

 $C_{33}H_{42}O_{19}$  742.68

ON46670

Price On Application



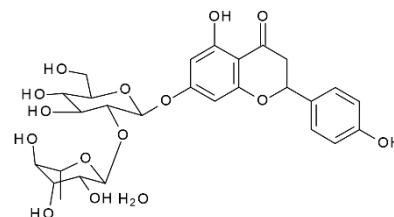
## Naringin hydrate

- Naringenin 7-Rhamnoglucoside
- 4,5,7-Trihydroxyflavanone 7-rhamnoglucoside

[10236-47-2]  $C_{27}H_{32}O_{14} \cdot H_2O$  598.55

ON04250

100g	\$95.00
250g	\$157.50
500g	\$265.00

Refs: *Erlund I, Nutrition Res*, 24, 10, p851; *Merck Index(14)* 6425; *Beilstein* 18,528; *Plant Physiol*, 1992, 99, p67

## Neamine

[3947-65-7]  $C_{12}H_{26}N_4O_6$  322.36

ON32335

5mg	\$60.00
10mg	\$92.00
25mg	\$185.00



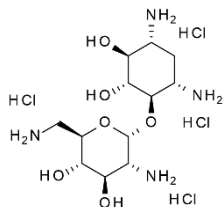
## Neaminehydro

## Neamine hydrochloride

• 2-Deoxy-4-O-(2,6-diamino-2,6-dideoxy-a-D-glucopyranosyl)-D-streptamine hydrochloride  
• Neomycin A tetrahydrochloride

[15446-43-2] C<sub>12</sub>H<sub>26</sub>N<sub>4</sub>O<sub>6</sub>·4HCl 468.2

ON16477	50mg	\$75.00
	100mg	\$120.00
	250mg	\$237.50



Refs: Kawaguchi, H, et al, J. Antibiot, 25, 695 (1972); Fourmy, D, et al, Science, 274, 1367 (1996); Riguet, E, et al, J. Med. Chem, 47, 4806 (2004)

## Neoagarobiose

• 3-O-(3,6-anhydro-L-galactosyl)-b-D-galactopyranose

[484-58-2] C<sub>12</sub>H<sub>20</sub>O<sub>10</sub> 324.28

ON29863	1mg	\$82.00
	2mg	\$124.00
	5mg	\$200.00



## Neoagaro decaose

C<sub>60</sub>H<sub>92</sub>O<sub>46</sub> 1549.34

ON44603	5mg	\$235.00
	10mg	\$450.00
	25mg	\$815.00



## Neoagaro hexaose

[25023-93-2] C<sub>36</sub>H<sub>56</sub>O<sub>28</sub> 936.81

ON01698	1mg	\$65.00
	2mg	\$88.00
	5mg	\$175.00



## Neoagarooctaose

C<sub>48</sub>H<sub>74</sub>O<sub>37</sub> 1243.08

ON44602	10mg	\$395.00
	25mg	\$650.00
	50mg	\$950.00



## Neoagaro oligosaccharides

Price On Application

ON45562



## Neoagaro tetraose

[16033-31-1] C<sub>24</sub>H<sub>38</sub>O<sub>19</sub> 630.55

ON44601	1mg	\$55.00
	2mg	\$90.00
	5mg	\$175.00



## Neocarrabiose

• 3-O-(3,6-Anhydro-a-D-galactopyranosyl)-D-galactopyranose

[6215-96-9] C<sub>12</sub>H<sub>20</sub>O<sub>10</sub> 324.28

ON58519	5mg	\$1375.00
	10mg	\$1950.00



## Neocarratetraose-41-O-sulfate sodium salt

[108321-78-4] 732.59

ON58520	5mg	\$69.40
	10mg	\$131.20
	25mg	\$210.00



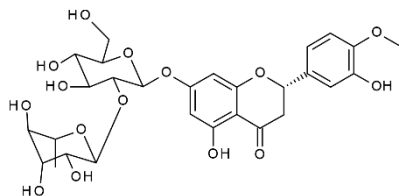
N



**Neohesperidin**[13241-33-3] C<sub>28</sub>H<sub>34</sub>O<sub>15</sub> 610.56

ON08130

50mg	\$35.00
100mg	\$60.00
250mg	\$125.00



Refs: Chem Ber, 1938, 71, p2511

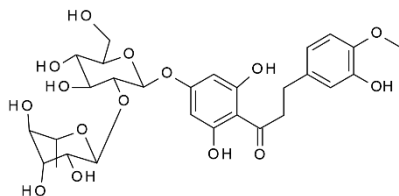
**Neohesperidin dihydrochalcone hydrate**

- 1-[4-[[2-O-(6-Deoxy-a-L-mannopyranosyl)-b-D-glucopyranosyl]oxy]-2,6-dihydroxyphenyl]-3-(3-hydroxy-4-methoxyphenyl)-1-propanone

[20702-77-6] C<sub>28</sub>H<sub>36</sub>O<sub>15</sub> 612.58

ON07510

25g	\$75.00
50g	\$130.00
100g	\$225.00



Refs: Merck Index(14) 6452

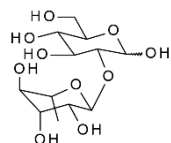
**Neohesperidose**

- 2-O-a-L-Rhamnopyranosyl-D-glucopyranose
- 2-O-(6-Deoxy-a-L-mannopyranosyl)-D-glucopyranose

[17074-02-1] C<sub>12</sub>H<sub>22</sub>O<sub>10</sub> 326.3

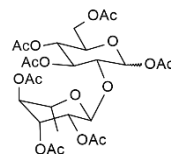
ON08094

10mg	\$95.00
25mg	\$175.00
50mg	\$300.00

**Neohesperidose heptaacetate**[19949-47-4] C<sub>28</sub>H<sub>36</sub>O<sub>17</sub> 620.57

ON08095

50mg	\$60.00
100mg	\$90.00
250mg	\$172.50

**Neokestose**

- O-b-D-Fructofuranosyl-(1,6)-b-D-fructofuranosyl-a-D-glucopyranoside

[3688-75-3] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

ON36494

Price On Application

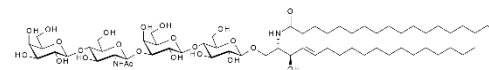
**Neolactotetraosylceramide**

- Globosides

[153565-90-3] C<sub>62</sub>H<sub>114</sub>N<sub>2</sub>O<sub>23</sub> 1255.57

ON29191

Price On Application

**Neomycin A tetrahydrochloride**see *Neamine hydrochloride*, ON16477 on page 228**Neotrehalose**see *a,b-Trehalose*, OT00157 on page 274**Neu5Aca2-3Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-4Glc**see *Sialylacto-N-fucopentaose II*, OS58475 on page 254**Neu5Aca2-3Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc**see *SSEA-4 hexaose*, OS59465 on page 260

## NeuAcaGalbGI

## Neu5Aca2-6Galb1-3GlcNAcb1-3Galb1-4(Fuca1-3)Glc

see *Sialylacto-N-fucopentaose VI*, OS58488 on page 254

## Neu5Aca2-8Neu5Aca2-3Galb1-3GalNAcb1-4 (Neu5Aca2-3)Galb1-4Glc

see *GT1a-Oligosaccharide*, OO46224 on page 238

## Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3Galb1-4Glc

see *GT3-Oligosaccharide*, OO46229 on page 239

## Neu5Aca2-8Neu5Aca2-8Neu5Acb2-8Neu5Aca2-3Galb1-4Glc

see *GQ3-Oligosaccharide*, OO46236 on page 139

## Neu5Ac-a-2,3-Gal-b-1,4(Fuca1,3)Glc

see *3-O-(a-L-Fucopyranosyl)-4-O-(3-sialyl-b-D-galactopyranosyl)-D-glucose*, OF05427 on page 98

## Neu5Ac-a-2-3-Gal-b-1-3(Fuc-a-1-4)GlcNAc

see *3'-Sialyl Lewis A*, OS00745 on page 256Neu5Ac-a-2-3-Gal-b-1-3(Fuc-a-1-4)GlcNAc-O(CH<sub>2</sub>)<sub>3</sub>NHCO(CH<sub>2</sub>)<sub>5</sub>NH-biotinsee *3'-Sialyl Lewis A-sp-biotin*, OS31037 on page 256

## Neu5Ac-a-2-3-Gal-b-1-3(Fuc-a-1-4)GlcNAc-b-1-3-Gal

see *Sialyl Lewis A pentaose*, OS09848 on page 256

## Neu5Ac-a-2-3-Gal-b-1-4(Fuc-a-1-3)GlcNAc-b-1-3-Gal

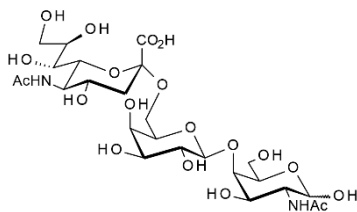
see *Sialyl Lewis X pentaose*, OS09845 on page 258

## Neu5Ac(a2-6)Gal(b1-4)GalNAc

[383365-43-3] C<sub>25</sub>H<sub>42</sub>N<sub>2</sub>O<sub>19</sub> 674.6

ON16223

Price On Application



## Neu5Ac-a-2-3-Gal-b-1-3-GalNAc sodium salt

see *3'-Sialylgalacto-N-biose sodium salt*, OS09250 on page 253

## Neu5Ac(a2-3)Gal(b1-3)GalNAc sodium salt

see *3'-Sialylgalacto-N-biose sodium salt*, OS09250 on page 253

## Neu5Ac-a-2-3-Gal-b-1-4-Glc

see *3'-Sialyllactose sodium salt*, OS04397 on page 255

## Neu5Ac-a-2-6-Gal-b1-4-Glc

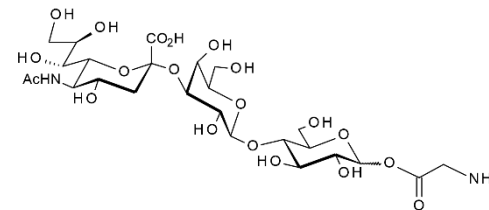
see *6'-Sialyllactose sodium salt*, OS04398 on page 255Neu5Ac-a-2-3Gal-b-1-4Glc-b-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CONHsee *3'-Sialyllactose-CPG*, OS04386 on page 255Neu5Ac-a-2-6Gal-b-1-4Glc-b-(CH<sub>2</sub>)<sub>5</sub>CONH-PEGsee *6'-Sialyllactose-CPG*, OS00143 on page 255Neu5Ac-a-2-6-Gal-b1-4-Glc-O(CH<sub>2</sub>)<sub>3</sub>NHCO(CH<sub>2</sub>)<sub>5</sub>NH-biotinsee *6'-Sialyllactose-sp-biotin*, OS31040 on page 255NeuAc-a2,3-Gal-b-1,4-Glc-GlycineNH<sub>2</sub>

- Glycyl-3'-sialyllactose
- 3'-SL-gly

C<sub>25</sub>H<sub>42</sub>N<sub>2</sub>O<sub>20</sub> 690.6

ON09339

100ug	\$70.00
250ug	\$140.00
500ug	\$200.00



## Neu5Ac-a-(2-6)-Gal-b-(1-4)-GlcNAc

see *6'-a-Sialyl-N-acetyllactosamine sodium salt*, OS09313 on page 252

## Neu5Ac-a-(2,3)-Gal-b-(1,4)-GlcNAc

see *3'-a-Sialyl-N-acetyllactosamine sodium salt*, OS06484 on page 252

## Neu5Ac2-b-3Gal1-b-4GlcNAc

see *3'-b-Sialyl-N-acetyllactosamine*, OS06118 on page 251Neu5Ac-a-2-6-Gal-b-1-4-GlcNAc-O(CH<sub>2</sub>)<sub>3</sub>NHCO(CH<sub>2</sub>)<sub>5</sub>NH-biotinsee *6'-a-Sialyl-N-acetyllactosamine-sp-biotin*, OS31043 on page 252

**Neu5Ac-a-2,3-Gal-b-1,4-GlcNAc-O(CH<sub>2</sub>)<sub>3</sub>NHCO(CH<sub>2</sub>)<sub>5</sub>NH-biotin**

see 3'-a-Sialyl-N-acetylglucosamine-sp-biotin, OS31042 on page 252

**Neu5Ac-a-2-3-Gal-b-1-4-GlcNAc-O(CH<sub>2</sub>)<sub>3</sub>-PAA-(CH<sub>2</sub>)<sub>6</sub>-biotin**

see 3'-a-Sialyl-N-acetylglucosamine-PAA-biotin, OS137338 on page 251

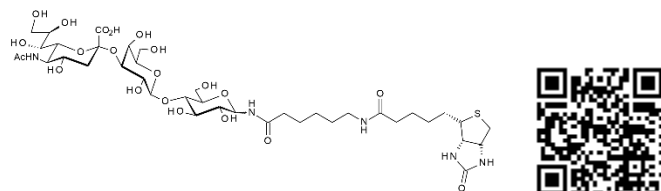
**Neu5Ac-a-2-6-Gal-b-1-4-GlcNAc-O(CH<sub>2</sub>)<sub>3</sub>-PAA-(CH<sub>2</sub>)<sub>6</sub>-biotin**

see 6'-a-Sialyl-N-acetylglucosamine-PAA-biotin, OS137337 on page 252

**NeuAc-a-2,3-Gal-b-1,4-Glc-NHCO-(CH<sub>2</sub>)<sub>5</sub>NH-biotin**[168636-53-1] C<sub>39</sub>H<sub>65</sub>N<sub>5</sub>O<sub>21</sub>S 972.02

ON09340

Price On Application

**Neu5Ac-a-2-3-Gal-b-1-4-Glc-b-NHCOCH<sub>2</sub>NH-CO(CH<sub>2</sub>)<sub>5</sub>NH-biotin**

see 3'-Sialyllactose-sp-biotin, OS31041 on page 255

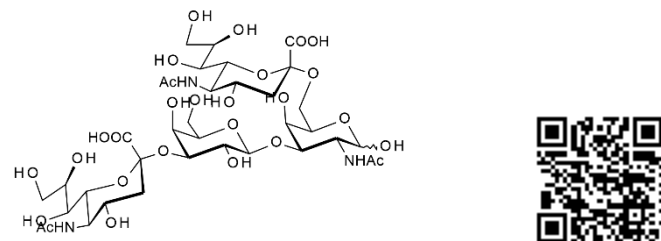
**Neu5Ac-a-2-3-Gal-b-1-4-Glc-spacer BSA**

see 3'-Sialyllactose-BSA, OS58388 on page 254

**NeuAc a2-3Gal b1-3(NeuAc a2-6)GalNAc**[71764-07-3] C<sub>36</sub>H<sub>59</sub>NaO<sub>27</sub> 965.86

ON32566

Price On Application

**Neu5Ac[1Me,4789Ac]a(2-6)Gal[24Bz,3Bn]-b-MP**

- 4-Methoxyphenyl 2,4-Di-O-benzoyl-3-O-benzyl-6-O-(methyl 5-Acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosonate)-b-D-galactopyranoside

1058.04

ON60600

Price On Application

**Neu5Ac[1Me,4789Ac]a(2-3)Gal[246Bz]-b-MP**

- 4-Methoxyphenyl 2,4,6-Tri-O-benzoyl-3-O-(methyl 5-Acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosonate)-b-D-galactopyranoside

C<sub>54</sub>H<sub>57</sub>NO<sub>22</sub> 1072.02

ON60604

25mg	\$49.00
50mg	\$85.00
100mg	\$147.00

**Neu5GcAc[1Me,4789Ac]a(2-6)Gal[24Bz,3Bn]-b-MP**

- 4-Methoxyphenyl 2,4-Di-O-benzoyl-3-O-benzyl-6-O-[methyl 5-(Acetoxyacetamido)-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosonate]-b-D-galactopyranoside

1116.08

ON60601

Price On Application

**Neu5GcAc[1Me,4789Ac]a(2-3)Gal[246Bz]-b-MP**

- 4-Methoxyphenyl 2,4,6-Tri-O-benzoyl-3-O-(methyl 5-Acetoxyacetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosonate)-b-D-galactopyranoside

1130.06

ON60603

Price On Application

**Neu5Gc-a-2-3-Gal-b-1-4-Glc**

see 3'-N-Glycolylneuraminyl-D-lactose sodium salt, OG46739 on page 133

## NeuGcGalGlcC

**a-Neu5Gc-(2-3)-b-Gal-(1-4)-b-Glc-(1-1)-Cer**see *GM3NeuGc-Ganglioside*, *OG158639* on page 138**NeuNAc2-3Galb1-3(NeuNAc2-6)GalNAc**see *Disialyl-TF*, *OD58489* on page 89**NeuNAc-a2-3-Gal-b1-4(Fuc-a1-3)Glc**see *3'-Sialyl-3-fucosyllactose*, *OS01065* on page 252**NeuNAc-a2-3Gal-b1-4(Fuc-a1-3)GlcNAc**see *3'-Sialyl Lewis X*, *OS04058* on page 257**NeuNAc(a-2-3)Gal(b1-3)GalNAc serine**see *N-Acetylneuraminyl-(a2-3)-D-galactopyranosyl-(b1-3)-D-N-acetylgalactosaminy serine*, *OA15271* on page 25

N

**a-NeuNAc-(2-6)-b-Gal-(1-4)-b-GlcNAc-(1-3)-b-Gal-(1-4)-Glc**see *LS-tetrasaccharide c*, *OL06570* on page 181**a-NeuNAc-(2-6)-(b-D-Gal-[1-3])-b-D-GlcNAc-(1-3)-b-D-Gal-(1-4)-Glc**see *LS-tetrasaccharide b*, *OL03877* on page 181**a-NeuNAc-(2-3)-b-Gal-(1-3)-[a-NeuNAc-(2-6)]-b-GlcNAc-(1-3)-b-Gal-(1-4)-Glc**see *Disialyllacto-N-tetraose*, *OD00172* on page 89**NeuNAc-a(2→3)-Gal-b(1→3)-GalNAc-a-Thr-Val-Pro-Ala-Ala-Val-Val-Val-Ala**see *APF Sialoglycopeptide ammonium salt*, *OA58741* on page 33**Neu5Troc[1Me,4789Ac]a(2-3)Gal[26Bn]-b-MP**[610763-72-9] C<sub>48</sub>H<sub>56</sub>Cl<sub>3</sub>NO<sub>20</sub> 1073.31

ON60599

50mg	\$55.00
100mg	\$95.00
250mg	\$189.00

**NGA2FB N-Glycan**

• Asialo, agalacto, bisected, fucosylated bi-antennary N-linked glycan

[79726-49-1] C<sub>64</sub>H<sub>107</sub>N<sub>9</sub>O<sub>45</sub> 1666.54

ON10169

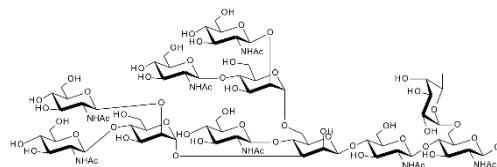
20ug

\$441.00

**NGA5FB N-Glycan**

Price On Application

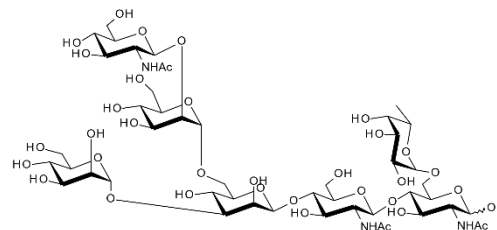
ON28965

**NGA1F N-Glycan**

• Biantennary, monogalacto, core fucosylated, NGA1F

Price On Application

ON64739

**NGA2F N-Glycan**• FA2 N-glycan  
• Asialo, agalacto, core-fucosylated bi-antennary N-linked glycan[84825-26-3] C<sub>56</sub>H<sub>94</sub>N<sub>4</sub>O<sub>40</sub> 1463.35

ON10163

10ug  
20ug\$393.80  
\$567.00

**NGA3F N-Glycan**

• Asialo, agalacto, fucosylated triantennary N-linked glycan

[1513691-26-3]  $C_{64}H_{107}N_5O_{45}$  1666.54

ON28970

Price On Application

**NGA4F N-Glycan**

• Asialo, agalacto, fucosylated, tetraantennary N-linked glycan

[321142-61-4]  $C_{72}H_{120}N_6O_{50}$  1869.73

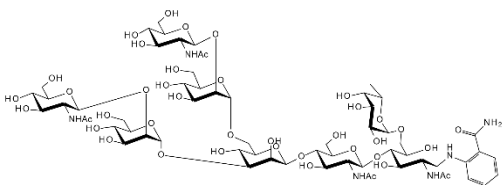
ON28966

Price On Application

**NGA2F Glycan, 2-AB labelled**

ON58605

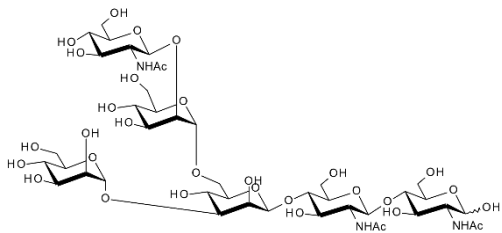
Price On Application

**NGA1 N-Glycan**

• Biantennary, monogalacto, NGA1

ON64738

Price On Application

**NGA2 N-Glycan**• A2 N-Glycan  
• Asialo, agalacto, bi-antennary N-linked glycan[84808-02-6]  $C_{50}H_{84}N_4O_{36}$  1317.21

ON01667

10ug  
20ug\$500.00  
\$720.00**NGA2B N-Glycan**

• Asialo, agalacto, bisected, bi-antennary N-linked glycan

 $C_{58}H_{97}N_5O_{41}$  1520.4

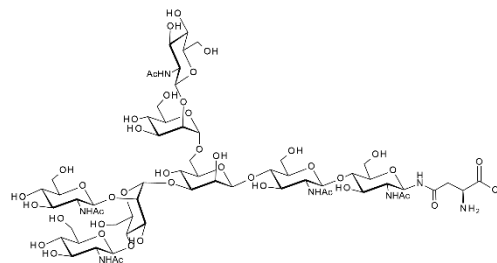
ON10162

20ug

\$336.00

**NGA3 N-Glycan**• A3 N-Glycan  
• Asialo, agalacto, tri-antennary N-linked glycan[110387-63-8]  $C_{58}H_{97}N_5O_{41}$  1520.4

ON10161

10ug  
20ug\$231.00  
\$420.00**NGA3B N-Glycan**

• Asialo, agalacto, bisected, tri-antennary N-linked glycan

[1620146-04-4]  $C_{66}H_{110}N_6O_{46}$  1723.59

ON10167

20ug

\$336.00

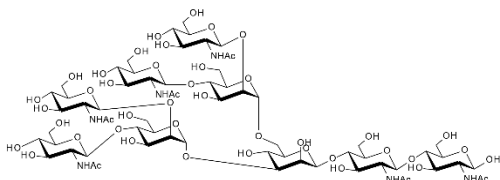


**NGAGlycan****NGA4 N-Glycan**

- Asialo, agalacto, tetra-antennary N-linked glycan
- A4 N-Glycan

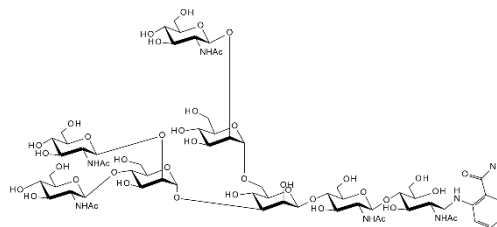
[385767-06-6]

ON10166

10ug  
20ug\$350.00  
\$600.00**NGA3 Glycan, 2-AB labelled**

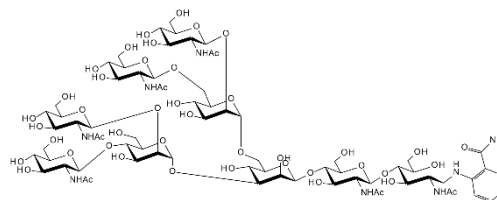
ON58606

Price On Application

**NGA4 Glycan, 2-AB labelled**

ON58607

Price On Application

**NGA4B N-Glycan**

- Asialo, agalacto, bisected tetraantennary N-linked glycan

[115403-70-8] C<sub>74</sub>H<sub>123</sub>N<sub>7</sub>O<sub>51</sub> 1926.79

ON28967

Price On Application

**NGA5B N-Glycan**

- Asialo, agalacto, bisected pentaantennary

[172906-79-5] C<sub>82</sub>H<sub>136</sub>N<sub>8</sub>O<sub>56</sub> 2129.98

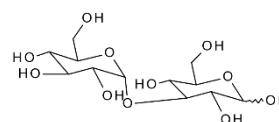
ON10172

25ug  
50ug  
100ug\$315.00  
\$525.00  
\$945.00**Nigerose**

- 3-O-a-D-Glucopyranosyl-D-glucopyranose

[497-48-3] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

ON06975

5mg  
10mg  
25mg\$52.50  
\$89.30  
\$162.75

Refs: Contour-Galcerá M-O, Guillot J.-M, Ortiz-Mellet C, Pflieger-Carrara F, Defaye J, Gelas J, Carbohyd. Res. 1996, 281, 1, p99

**Nigerotriose**

- 3-O-a-D-Glucopyranosyl-3-O-a-D-glucopyranosyl-D-glucopyranose

[23393-12-6] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

ON16240

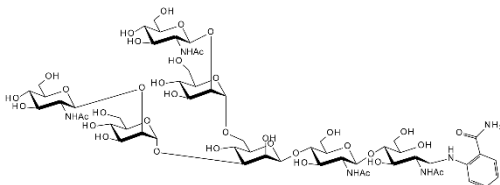
25mg

\$7750.00

**NGA2 Glycan, 2-AB labelled**

ON58604

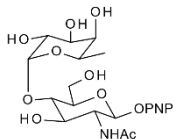
Price On Application



**Nistose**see *Nystose*, ON07511 on page 235**4-Nitrophenyl 2-acetamido-2-deoxy-4-O-a-L-fucopyranosyl)-b-D-glucopyranoside**[259143-52-7] C<sub>20</sub>H<sub>28</sub>N<sub>2</sub>O<sub>12</sub> 488.44

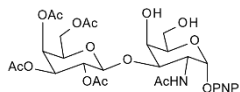
ON16480

1mg	\$318.00
2mg	\$578.10
5mg	\$1051.10

**4-Nitrophenyl 2-acetamido-2-deoxy-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranoside**[59837-13-7] C<sub>28</sub>H<sub>36</sub>N<sub>2</sub>O<sub>17</sub> 672.59

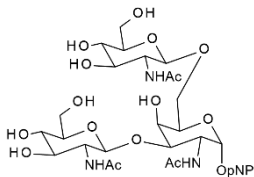
ON16479

2mg	\$149.90
5mg	\$272.60
10mg	\$495.50

Refs: Medina, M. et al, *Cancer Res.* 59,1061-1070, (1999)**4-Nitrophenyl 2-acetamido-3,6-di-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside**[1144040-11-8] C<sub>30</sub>H<sub>44</sub>N<sub>4</sub>O<sub>18</sub> 748.69

ON16481

1mg	\$254.40
2mg	\$462.50
5mg	\$840.90

Refs: Ashida, H. et al, *J. Biol. Chem.*, 276, 28226 (2001); Katayama, T. et al, *J. Bacteriol.*, 186, 4885 (2004); Anderson, K. et al, *J. Biol. Chem.*, 280, 7720 (2005)**4-Nitrophenyl hepta-O-acetyl-1-thio-b-lactoside**

[78006-49-2]

ON46431

1mg	\$75.00
2mg	\$120.00
5mg	\$250.00

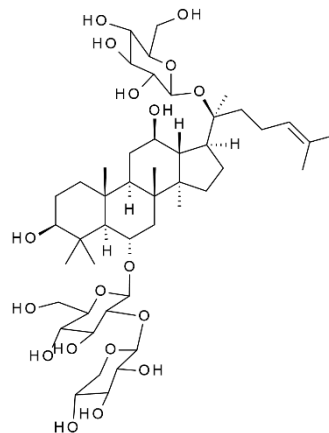
**Notoginsenoside R1**

• Sanchinoside R1

[80418-24-2] C<sub>47</sub>H<sub>80</sub>O<sub>18</sub> 933.15

ON10463

10mg	\$95.00
25mg	\$190.00
50mg	\$350.00

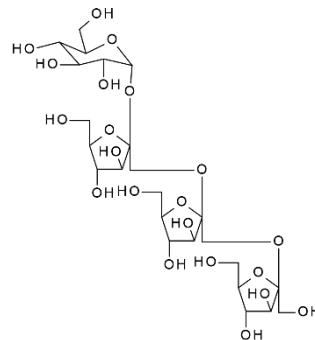


Refs: Chem. Pgarm. Bull, 1982, 29, p2844

**Nystose**• Fungitetraose  
• Nistose[13133-07-8] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

ON07511

100mg	\$55.00
250mg	\$97.50
500mg	\$165.00

Refs: Campbell JM, Bauer LL, Fahey Jr GC, Hogarth AJCL, Wolf BW, Hunter DE, . *J. Agric. Food Chem.*, 1997, 48, p3076**3-O-(3,6-Anhydro-a-D-galactopyranosyl)-D-galactopyranose**see *Neocarrabiose*, ON58519 on page 228**4-O-b-D-Glucopyranosyl-a-D-glucopyranosyl fluoride**see *Cellobiosyl fluoride*, OC72059 on page 58

**Octaacetocel****D-b-Octaacetocellobiose**

678.59

OO58524

Price On Application

**Octa-O-acetyl D-Cellobiose**see *D-Cellobiose octaacetate*, OC05954 on page 58**Octa-O-acetyl-D-lactose**see *Lactose octaacetate*, OL02883 on page 170**Octa-O-acetyl-b-D-maltose**see *b-D-Maltose octaacetate*, OM04136 on page 185**Octadeca-O-methyl-a-cyclodextrin**see *Hexakis(2,3,6-tri-O-methyl)cylomaltohexaose*, OH44662 on page 151**Octadecasaccharide dp18**

5810.35

OO58530

1mg  
2mg\$299.39  
\$479.02**Octakis-(6-amino-6-deoxy)-γ-cyclodextrin octahydrochloride**see *6-Amino-6-deoxy-gamma-cyclodextrin hydrochloride*, OA44687 on page 29**Octakis-(6-aminomethyl-6-deoxy)-γ-cyclodextrin**see *6-aminomethyl-6-deoxy-gamma-cyclodextrin*, OA44692 on page 30**Octakis-(6-bromo-6-deoxy)-γ-cyclodextrin**see *6-bromo-6-deoxy-gamma-cyclodextrin*, OB44694 on page 52**Octakis-(6-O-tert-butylidimethylsilyl)-γ-cyclodextrin**see *6-O-tert-butylidimethylsilyl-gamma-cyclodextrin*, OT44684 on page 53**Octakis-(6-chloro-6-deoxy)-gamma-cyclodextrin**see *6-Chloro-6-deoxy-gamma-cyclodextrin*, OC44688 on page 63**Octakis-(6-cyano-6-deoxy)-γ-cyclodextrin**see *6-Cyano-6-deoxy-gamma-cyclodextrin*, OC44685 on page 67**Octakis-(6-deoxy)-γ-cyclodextrin**see *6-Deoxy-gamma-cyclodextrin*, OD44683 on page 72**Octakis-(6-deoxy-6-iodo)-γ-cyclodextrin,**see *6-deoxy-6-iodo-gamma-cyclodextrin*, OD44696 on page 73**Octakis-(6-deoxy-6-mercapto)-γ-cyclodextrin**see *6-deoxy-6-mercapto-γ-cyclodextrin*, OD44734 on page 73**Octakis-(2,3-di-O-acetyl-6-O-tert-butylidimethylsilyl)-γ-cyclodextrin**see *2,3-Di-O-acetyl-6-O-tert-butylidimethylsilyl-gamma-cyclodextrin*, OD44726 on page 76**Octakis-(2,3-di-O-acetyl)-γ-cyclodextrin**see *2,3-Di-O-acetyl-gamma-cyclodextrin*, OD44699 on page 76**Octakis-(2,3-di-O-acetyl-6-deoxy)-γ-cyclodextrin**see *2,3-Di-O-acetyl-6-deoxy-gamma-cyclodextrin*, OD44702 on page 77**Octakis-(2,3-di-O-allyl)-γ-cyclodextrin**see *2,3-Di-O-allyl-gamma-cyclodextrin*, OD44698 on page 78**Octakis-(2,3-di-O-benzyl-6-O-tert-butylidimethylsilyl)-γ-cyclodextrin,**see *2,3-Di-O-benzyl-6-O-tert-butylidimethylsilyl-gamma-cyclodextrin*, OD44725 on page 79**Octakis-(2,6-di-O-tert-butylidimethylsilyl)-γ-cyclodextrin**see *2,6-Di-tert-butylidimethylsilyl-gamma-cyclodextrin*, OD44703 on page 80**Octakis-(3,6-di-O-tert-butylidimethylsilyl)-γ-cyclodextrin**see *3,6-Di-tert-butylidimethylsilyl-gamma-cyclodextrin*, OD44706 on page 80**Octakis-(2,3-di-O-methyl-6-amino-6-deoxy)-γ-cyclodextrin**see *2,3-Dimethyl-6-amino-6-deoxy-gamma-cyclodextrin*, OD44700 on page 85**Octakis-(2,3-di-O-methyl-6-O-tert-butylidimethylsilyl)-γ-cyclodextrin**see *2,3-di-O-methyl-6-O-tert-butylidimethylsilyl-gamma-cyclodextrin*, OD44724 on page 85



**Octakis-(2,3-di-O-methyl)- $\gamma$ -cyclodextrin**

see 2,3-Dimethyl-gamma-cyclodextrin, OD44697 on page 86

**Octakis-(2,6-di-O-methyl)- $\gamma$ -cyclodextrin**

see 2,6-dimethyl-gamma-cyclodextrin, OD44704 on page 86

**Octakis-(3,6-di-O-methyl)- $\gamma$ -cyclodextrin**

see 3,6-Di-O-acetyl-gamma-cyclodextrin, OD44717 on page 77

**Octakis-(2,3-di-O-methyl-6-deoxy)- $\gamma$ -cyclodextrin**

see 2,3-dimethyl-6-deoxy-gamma-cyclodextrin, OD44701 on page 87

**Octakis-(2,6-di-O-methyl-3-O-n-pentyl)- $\gamma$ -cyclodextrin**

see 2,6-di-O-methyl-3-O-n-pentyl-gamma-cyclodextrin, OD44727 on page 87

**Octakis-(2,6-di-O-n-pentyl-3-O-acetyl)- $\gamma$ -cyclodextrin**

see 2,6-di-O-n-pentyl-3-O-acetyl-gamma-cyclodextrin, OD44728 on page 87

**Octakis-(2,6-di-O-n-pentyl-3-O-n-butyl)- $\gamma$ -cyclodextrin**

see 2,6-di-O-n-pentyl-3-O-n-butyl-gamma-cyclodextrin, OD44730 on page 88

**Octakis-(2,6-di-O-n-pentyl)- $\gamma$ -cyclodextrin**

see 2,6-di-n-pentyl-gamma-cyclodextrin, OD44705 on page 88

**Octakis-(2,6-di-O-n-pentyl-3-O-trifluoroacetyl)- $\gamma$ -cyclodextrin**

see 2,6-di-O-n-pentyl-3-O-trifluoroacetyl-gamma-cyclodextrin, OD44729 on page 88

**Octakis-(2,3,6-tri-O-acetyl)- $\gamma$ -cyclodextrin,**

see 2,3,6-Tri-O-acetyl-gamma-cyclodextrin, OT44722 on page 275

**Octakis-(2,3,6-tri-O-benzoyl)- $\gamma$ -cyclodextrin**

see 2,3,6-Tri-O-benzoyl-gamma-cyclodextrin, OT44723 on page 277

**Octakis-(2,3,6-tri-O-benzyl)- $\gamma$ -cyclodextrin**

see 2,3,6-Tri-O-benzyl-gamma-cyclodextrin, OT44721 on page 278

**Octakis-(2,3,6-tri-O-ethyl)- $\gamma$ -cyclodextrin**

see 2,3,6-Triethyl-gamma-cyclodextrin, OT44719 on page 278

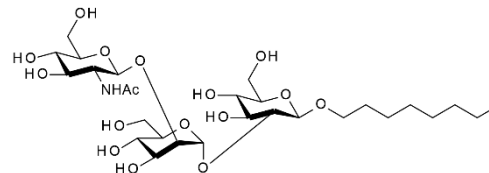
**Octakis-(2,3,6-tri-O-n-octyl)- $\gamma$ -cyclodextrin**

see 2,3,6-Trioctyl-gamma-cyclodextrin, OT44720 on page 280

**6-Octanoyl sucrose**see *b-D-Fructofuranosyl a-D-glucopyranoside 6-octanoate*, OF16036 on page 96**Octyl 2-acetamido-2-deoxy-b-D-glucopyranosyl-(1-2)-a-D-mannopyranosyl-(1-2)-b-D-glucopyranoside**[1268248-67-4] C<sub>28</sub>H<sub>51</sub>NO<sub>16</sub> 657.7

OO16826

2mg	\$1560.00
5mg	\$2825.00
10mg	\$5150.00

**Oligogalactosyllactose**

• galactosyl-galactosyl-lactose

OO28868

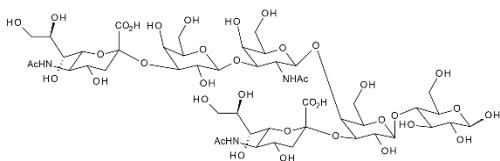
Price On Application

**a-oligoglucan**see *a-Glucan oligosaccharide*, OG143188 on page 126**Oligomannose-1**see *Man-1 N-Glycan*, OM28923 on page 190**Oligomannose-2 (b)**see *Man-2b N-Glycan*, OM28964 on page 190**Oligomannose-2(a)**see *Man-2a N-Glycan*, OM07637 on page 190**Oligomannose-3a**see *Man-3a N-Glycan*, OM10175 on page 190**Oligomannose-5**see *Man-5 N-Glycan*, OM07640 on page 191

**Oligomannose****Oligomannose-7D1**see *Man-7D1 N-Glycan, OM10176 on page 191***Oligomannose-9**see *Man-9 N-Glycan, OM07641 on page 192***Oligomannose 8D1D3**see *Man-8D1D3 N-Glycan, OM10177 on page 192***Oligomannose-1 core fucosylated**see *Man-1-F N-Glycan, OM28922 on page 188***Oligomannose-9-Glc**see *Man-9-Glc N-Glycan, OM10178 on page 189***Oligomannose-6 glycan**see *Man-6 N-Glycan, OM07646 on page 191***Oligomannose 8 glycan**see *Man-8 N-Glycan, OM07648 on page 192***Oligomannose-3 glycan, core fucosylated**see *Man-3-F N-Glycan, OM28924 on page 189***Oligomannose-3XL**see *Man-3Xyl N-Glycan, OM10179 on page 197***Oligomannose-3 xylose, 1-3 fucose**see *Man-3-Xyl-Fuc N-Glycan, OM32523 on page 197***GD1a-Oligosaccharide**[1627679-86-0]  $C_{48}H_{79}N_3O_{37}$  1290.14

OO35336

1mg	\$900.00
2mg	\$1500.00
5mg	\$3000.00

**GD1b-Oligosaccharide** $C_{48}H_{77}N_3O_{37}Na_2$  1334.1

OO46227

5mg	\$2500.00
10mg	\$4800.00
25mg	\$11500.00

**GD2-Oligosaccharide** $C_{42}H_{67}N_3O_{32}Na_2$  1171.96

OO46222

1mg	\$385.00
2mg	\$650.00
5mg	\$975.00

**GD3-Oligosaccharide**see *Disialyllactose, OD45739 on page 88***GT1a-Oligosaccharide**

• Neu5Aca2-8Neu5Aca2-3Galb1-3GalNAcb1-4 (Neu5Aca2-3)Galb1-4Glc

 $C_{59}H_{93}N_4O_{45}Na_3$  1647.34

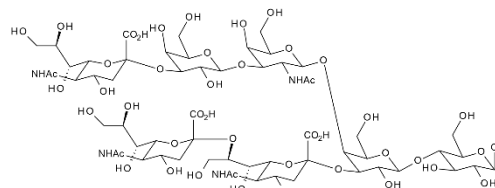
OO46224

1mg	\$320.00
2mg	\$500.00
5mg	\$825.00

**GT1b-Oligosaccharide**[75663-36-4]  $C_{59}H_{96}N_4O_{45}$  1581.39

OO16323

1mg	\$525.00
2mg	\$1000.00
5mg	\$2475.00



**GT2-Oligosaccharide**• GalNAc<sub>6</sub>S<sub>1</sub>-4(Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3)Galb1-4GlcC<sub>53</sub>H<sub>83</sub>N<sub>4</sub>O<sub>40</sub>Na<sub>3</sub> 1485.2

OO46234

1mg	\$315.00
2mg	\$495.00
5mg	\$875.00

**GT3-Oligosaccharide**

• Neu5Aca2-8Neu5Aca2-8Neu5Aca2-3Galb1-4Glc

C<sub>45</sub>H<sub>70</sub>N<sub>3</sub>O<sub>35</sub>Na<sub>3</sub> 1282.01

OO46229

1mg	\$150.00
2mg	\$250.00
5mg	\$475.00

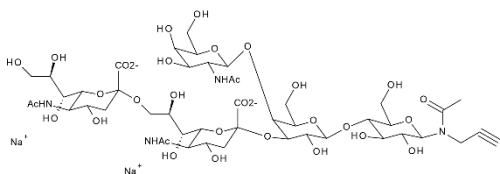
**GD2-Oligosaccharide-b-(N-acetyl-propargyl)**

• GD2-Saccharide-b-NAc-propargyl

C<sub>47</sub>H<sub>72</sub>N<sub>4</sub>O<sub>32</sub>Na<sub>2</sub> 1251.06

OO76149

1mg \$1500.00

**GD2-Oligosaccharide-desthiobiotin**C<sub>65</sub>H<sub>108</sub>N<sub>10</sub>O<sub>37</sub>·2Na 1665.56

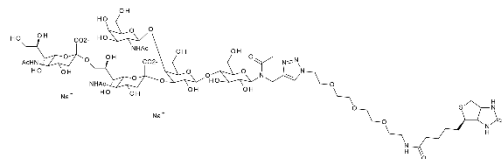
OO76165

Price On Application

**GD2-Oligosaccharide-sp-biotin**C<sub>65</sub>H<sub>110</sub>N<sub>10</sub>O<sub>35</sub>S·2Na 1637.66

OO71835

1mg \$3500.00

**4-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-2,3,6-tri-O-acetyl-a-D-glucopyranosyl fluoride**

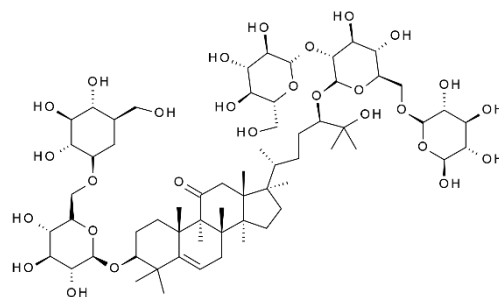
see 2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-lactosyl fluoride, OH72061 on page 145

**11-oxo-Mogroside V**

[126105-11-1]

Price On Application

OO44157

**Palatinitol**

see Isomalt, OI71952 on page 158

**Palatinose**

see Isomaltulose, OI04225 on page 159

**Panaxoside A**

see Ginsenoside Rg1, OG09289 on page 120

**Panaxoside Rc**

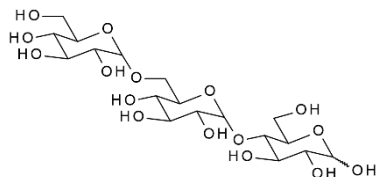
see Ginsenoside Rc, OG09295 on page 119

**Panose****D-Panose**

- 4-O-[6-O-(a-D-Glucopyranosyl)-a-D-glucopyranosyl]-D-glucopyranose
- Glc-a-1,6-Glc-a-1,4-Glc

[33401-87-5] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> 504.44

OP06685	50mg	\$65.00
	100mg	\$110.00
	250mg	\$225.00



Refs: Kuriki T, Tsuda M, Imanaka T, J. Ferment. Bioeng. 1992, Vol73, No3, p198-202

**Paromamine**

- 4-O-(2-Amino-2-deoxy-alpha-D-glucopyranosyl)-2-deoxy-D-streptamine

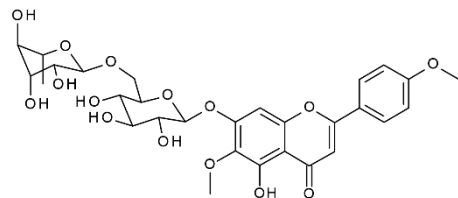
[534-47-4][77667-55-1] C<sub>12</sub>H<sub>25</sub>N<sub>3</sub>O<sub>7</sub> 323.34

OP31113

Price On Application

**Paromomycin**see *Aminosidine*, OA11590 on page 31**PBCD.Na**see *b-Cyclodextrin dihydrogen phosphate, sodium salt*, OC34948 on page 67**Pectolarin**[28978-02-1] C<sub>29</sub>H<sub>34</sub>O<sub>15</sub> 622.57

OP08118	2mg	\$50.00
	5mg	\$77.50
	10mg	\$118.00



Refs: Arch. Pharm. 1936, 274, p126

**Pelargonidin-3-O-rutinoside chloride**[33978-17-5] C<sub>27</sub>H<sub>31</sub>O<sub>14</sub>Cl 614.98

OP71506

1mg	\$110.00
2mg	\$190.00
5mg	\$350.00

**Pelargonidin-3-O-sophoroside**

OP74809

Price On Application

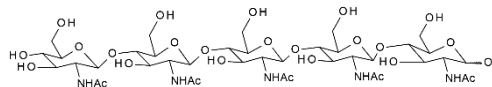
**Pennogenin tetraglycoside**see *Chonglou Saponin VII*, OC42613 on page 65**N,N',N'',N''',N''''-Pentaacetyl chitopentaose**

- Penta-N-acetylchitopentaose

[36467-68-2] C<sub>40</sub>H<sub>67</sub>N<sub>5</sub>O<sub>26</sub> 1033.98

OP04834

5mg	\$90.00
10mg	\$160.00
20mg	\$280.00

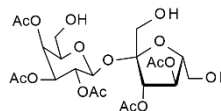


Refs: Suzuki K, et al, Carbohydr. Res. 1986, 151, 403

**Penta-N-acetylchitopentaose**see *N,N',N'',N''',N''''-Pentaacetyl chitopentaose*, OP04834 on page 240**3,4,2',3',4'-Penta-O-acetylsucrose**[34382-02-0] C<sub>22</sub>H<sub>32</sub>O<sub>16</sub> 552.49

OP07297

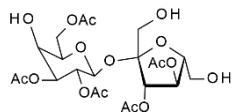
25mg	\$89.50
50mg	\$168.00
100mg	\$263.00



**3,4,2',3',6'-Penta-O-acetylsucrose**[35867-25-5]  $C_{22}H_{32}O_{16}$  552.49

OP07298

25mg	\$90.00
50mg	\$175.00
100mg	\$275.00

**Pentagalacturonic Acid**[40386-94-5]  $C_{30}H_{42}O_{31}$  898.64

OP36504

50mg	\$2750.00
100mg	\$3500.00

**Penta-guluronic acid sodium salt** $C_{30}H_{37}O_{31}Na_5$  1008.55

OP61663

10mg	\$225.00
25mg	\$450.00
50mg	\$675.00

**2,3,4,3',4'-Penta-O-isovaleryl-sucrose**

[498552-73-1]

OP46843

1g	\$650.00
2g	\$1000.00
5g	\$1950.00

**Penta-mannuronic acid sodium salt** $C_{30}H_{37}O_{31}Na_5$  1008.55

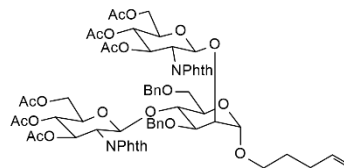
OP61659

10mg	\$225.00
25mg	\$450.00
50mg	\$675.00

**Pentasaccharide core fucosylated (MAN-3F)**see *Man-3-F N-Glycan, OM28924* on page 189**4-Pentenyl 2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido b-D-glucopyranosyl)-3,6-di-O-benzyl-a-D-mannopyranoside** $C_{65}H_{70}N_2O_{24}$  1263.25

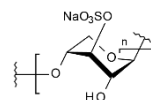
OP11000

1mg	\$52.50
2mg	\$94.50
5mg	\$210.00

**Pentosan polysulfate sodium**[37319-17-8][116001-96-8]  $(C_5H_8Na_2O_{10}S_2)_n$ 

OP09491

Price On Application

**Peonidin-3-O-rutinoside chloride**[27539-32-8]  $C_{28}H_{33}O_{15}Cl$  645.01

OP74938

1mg	\$230.00
2mg	\$366.00
5mg	\$665.00

**Peracetylated cellobiosyl fluoride**see *2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-cellobiosyl fluoride, OH72063* on page 145**Peracetylated lactosyl fluoride**see *2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-lactosyl fluoride, OH72061* on page 145**Peracetyl maltoheptaose**see *Maltoheptaose tricoacetate, OM06946* on page 183

**Peracetylmal****Peracetyl maltohexaose**see *Maltohexaose eicosaacetate*, *OM06944* on page 184**Permethyl- $\alpha$ -cyclodextrin**see *Hexakis(2,3,6-tri-O-methyl)cyclomaltohexaose*, *OH44662* on page 151**Phloretin-3-hydroxy-2'-O-glucoside**

• 3-Hydroxyphloridzin

[30779-02-3][2032374-22-2]  $C_{21}H_{24}O_{11}$  452.41

	25mg	\$2250.00
OP146388	50mg	\$3575.00

**Phloretin-3-hydroxy-4'-O-glucoside**

• Sieboldin

[18777-73-6]

	1mg	\$85.00
OP146387	2mg	\$150.00
	5mg	\$225.00

**Phloretin 2'-O-xylosyl-glucoside**[145758-09-4]  $C_{26}H_{32}O_{14}$  568.52

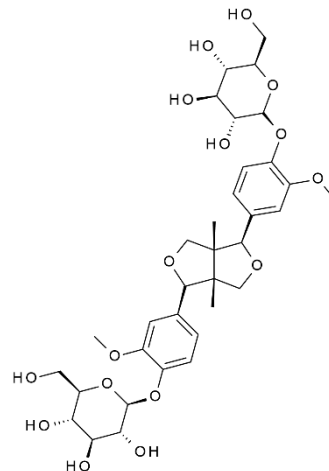
OP71949

Price On Application

**Phytolaccasaponin E**see *Esculentoside A*, *OE33280* on page 92**Pinoresinol diglucoside**[63902-38-5]  $C_{32}H_{42}O_{16}$  682.67

OP44056

10mg	\$60.00
25mg	\$100.00
50mg	\$170.00

**pk-Antigen**see *Globotriose*, *OG01626* on page 126**Plantamajoside**[104777-68-6]  $C_{29}H_{36}O_{16}$  640.59

OP45063

5mg	\$95.00
10mg	\$175.00
25mg	\$300.00

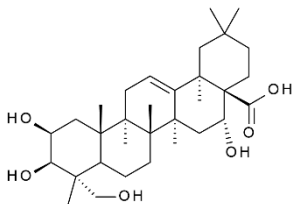
**pLNH**see *p-Lacto-N-hexaose*, *OL06839* on page 168**Poly-beta-cyclodextrin (Cross-linked by Epichlorohydrin)**see *b-Cyclodextrin polymer crosslinked with epichlorohydrin*, *OC33935* on page 68

**Prednisolone****Polygalacic Acid**

[22338-71-2]

OP44169

10mg	\$80.00
25mg	\$160.00
50mg	\$272.00

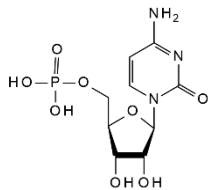
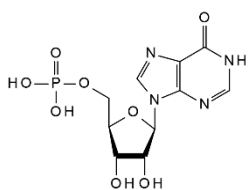
**Polyinosinic acid, homopolymer, complex with polycytidylic acid, homopolymer (1:1)**

[24939-03-5]

 $(C_{10}H_{13}N_4O_5P)_x \cdot (C_9H_{14}N_3O_5P)_x$ 

OP29952

1g	\$80.00
2g	\$125.00
5g	\$200.00

**Polyphyllin C**

[76296-71-4]

 $C_{39}H_{62}O_{12}$  722.9

OP59478

Price On Application

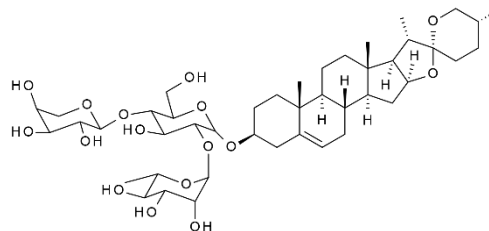
**Polyphyllin D**

- Chonglou Saponin I
- Polyphyllin I

[50773-41-6]  $C_{44}H_{70}O_{16}$  855.02

OP42701

10mg	\$75.00
25mg	\$110.00
50mg	\$180.00

**Polyphyllin E**

• Prosapogenin A

[19057-67-1]  $C_{39}H_{64}O_{13}$  740.92

OP59523

50mg	\$190.00
100mg	\$350.00
250mg	\$625.00

**Polyphyllin I**see *Polyphyllin D, OP42701 on page 243***Polyphyllin III**see *Dioscin, OD11563 on page 87***Polysciasaponin P3**see *Ginsenoside Ro, OG09294 on page 122***Prednisolone succinate a-cyclodextrin conjugate**

OP61395

Price On Application



**Prednisolone****Prednisolone succinate b-cyclodextrin conjugate**

OP61396

Price On Application

**Prednisolone succinate gamma-cyclodextrin conjugate**

OP61397

Price On Application

**Primeverose**

• 6-(b-D-Xylosido)-D-glucose

[26531-85-1] C<sub>11</sub>H<sub>20</sub>O<sub>10</sub> 312.27

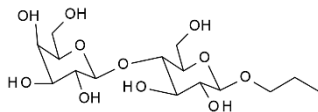
OP153479

50mg	\$1500.00
100mg	\$2350.00
250mg	\$3650.00

**n-Propyl 4-O-b-D-galactopyranosyl-b-D-glucopyranoside**see *N-Propyl b-lactoside*, OP04979 on page 244**N-Propyl b-lactoside**• n-Propyl 4-O-b-D-galactopyranosyl-b-D-glucopyranoside  
• b-D-Gal-(1,4)-b-D-Glc-1-OPr[98302-29-5] C<sub>15</sub>H<sub>28</sub>O<sub>11</sub> 384.38

OP04979

10mg	\$600.00
25mg	\$950.00
50mg	\$1715.00



Refs: Zhou B, Lii S-C, Laine RA, Huangli RTC, Lii Y-T, J. Biol. Chem. 1989, Vol264, No21, July 25, p12272-12277

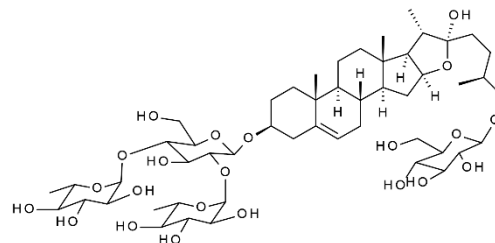
**Prosapogenin A**see *Polyphyllin E*, OP59523 on page 243**Protected T Epitope**see *2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-di-O-acetyl-2-deoxy-a-D-galactopyranosyl-Fmoc-L-serine*, OA30753 on page 19**Protodioscin**

• (3b, 25R)-26-(b-D-glucopyranosyloxy)-22-hydroxyfurost-5-en-3-yl O-6-deoxy-a-L-mannopyranosyl-(1-2)-O-[6-deoxy-a-L-mannopyranosyl-(1-4)]-b-D-glucopyranoside

[55056-80-9] C<sub>51</sub>H<sub>84</sub>O<sub>22</sub> 1049.22

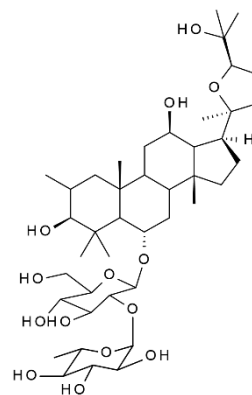
OP09383

10mg	\$60.00
25mg	\$115.00
50mg	\$175.00

**Pseudoginsenoside FII**[69884-00-0] C<sub>42</sub>H<sub>72</sub>O<sub>14</sub> 801.01

OP09384

10mg	\$89.30
25mg	\$131.50
50mg	\$210.00

**Pseudoprotodioscin**[102115-79-7] C<sub>51</sub>H<sub>82</sub>O<sub>21</sub> 1031.18

OP31761

50mg	\$95.00
100mg	\$175.00
250mg	\$325.00





**Quercetin 3-O-(4"-O-acetyl)-a -L-rhamnopyranoside**

QQ74558

Price On Application

**Quercetin 3-O-gentobioside**[7431-83-6] C<sub>27</sub>H<sub>30</sub>O<sub>17</sub> 626.52

QQ106506

1mg	\$85.00
2mg	\$150.00
5mg	\$225.00

**Quercetin-3-O-b-D-glucose-7-O-b-D-gentiobioside**

QQ43903

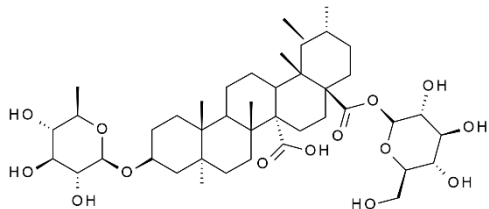
Price On Application

**Quercetin-3-rutinoside**see *Rutin*, OR29292 on page 248**Quercetin-3-rutinoside hydrate**see *Rutin hydrate*, OR03679 on page 249**Quinovic acid 3-O-(6-deoxy-b-D-glucopyranoside) 28-O-b-D-glucopyranosyl ester**

[124727-10-2]

QQ44013

Price On Application

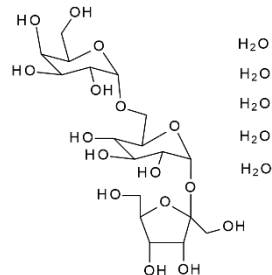
**1,6-a-D-Raffinose pentahydrate**see *D-Raffinose pentahydrate*, OR06197 on page 245**D-Raffinose pentahydrate**

• 1,6-a-D-Raffinose pentahydrate

[17629-30-0][512-69-6] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub>·5H<sub>2</sub>O 594.51

OR06197

250g	\$75.00
500g	\$125.00
1kg	\$225.00



Refs: Saleki-Gerhardt A, Stowell JG, Byrn SR, Zografis G, J. Pharm. Sci. 1995, 84(3), 318-23

**Raffinose-sp-biotin**

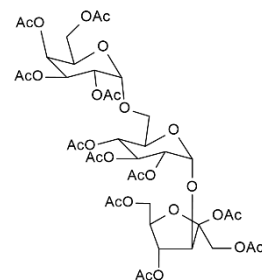
OR44623

Price On Application

**D-Raffinose undecaacetate**[6462-12-0] C<sub>40</sub>H<sub>54</sub>O<sub>27</sub> 966.84

OR06897

25g	\$47.50
50g	\$84.00
100g	\$158.00



Refs: Akoh CC, J. Am. Oil Chemists' Society, 1992,69,1,p1558

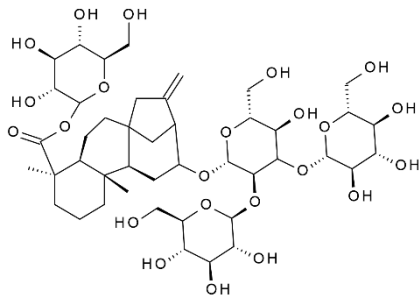
**Rebaudioside****Rebaudioside A**

• (4a)-13-[(2-O-b-D-Glucopyranosyl-3-O-b-D-glucopyranosyl-b-D-glucopyranosyl)-oxy]kaur-6-en-8-oic acid b-D-glucopyranosyl ester

[58543-16-1] C<sub>44</sub>H<sub>70</sub>O<sub>23</sub> 967.01

OR44890

10g	\$60.00
25g	\$95.00
50g	\$135.00

**Rebaudioside B**

• 13-O-[b-D-Glucopyranosyl-(1,2)-b-D-glucopyranosyl-(1,3)-b-D-glucopyranoside]-16-kaur-19-oic acid  
• Stevioside A4

[58543-17-2] C<sub>38</sub>H<sub>60</sub>O<sub>18</sub> 804.87

OR44880

Price On Application

**Rebaudioside C**

• (4a)-13-[(O-6-Deoxy-a-L-mannopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl)-oxy]-kaur-16-en-18-oic acid b-D-glucopyranosyl ester  
• Dulcoside B

[63550-99-2] C<sub>44</sub>H<sub>70</sub>O<sub>22</sub> 951.01

OR44881

10mg	\$80.00
25mg	\$160.00
50mg	\$225.00

**Rebaudioside D**

• (4a)-13-[(O-b-D-Glucopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl)oxy]-kaur-16-en-18-oic acid 2-O-b-D-glucopyranosyl-b-D-glucopyranosyl ester

[63279-13-0] C<sub>50</sub>H<sub>80</sub>O<sub>28</sub> 1129.15

OR44882

1mg	\$120.00
2mg	\$196.00
5mg	\$375.00

**Rebaudioside E**

• 13-[(O-b-D-Glucopyranosyl-(1,2)-O-[b-D-glucopyranosyl)-oxy]-kaur-16-en-18-oic acid (4'-O-b-D-glucopyranosyl-deoxy-(1,2)-O-[b-D-glucopyranosyl ester

[63279-14-1] C<sub>44</sub>H<sub>70</sub>O<sub>23</sub> 967.01

OR44886

1mg	\$200.00
2mg	\$280.00
5mg	\$450.00

**Rebaudioside H**

C<sub>50</sub>H<sub>80</sub>O<sub>27</sub> 1113.15

OR44891

Price On Application

**Rebaudioside L**

OR46454

Price On Application



## Rhamnopyrano

## Rebaudioside N

• 13-[[O-b-D-Glucopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl]oxy]-kaur-16-en-18-oic acid (4')-O-6-deoxy-L-mannopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl ester

[1220616-46-5] C<sub>56</sub>H<sub>90</sub>O<sub>32</sub> 1275.29

OR44883	1mg	\$180.00
	2mg	\$270.00
	5mg	\$420.00



## Rebaudioside O

• 13-[[O-b-D-Glucopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl]oxy]-kaur-16-en-18-oic acid (4')-O-b-D-glucopyranosyl-(1,3)-O-6-deoxy-L-mannopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl ester

[1220616-48-7] C<sub>62</sub>H<sub>100</sub>O<sub>37</sub> 1437.44

OR44884	1mg	\$195.00
	2mg	\$280.00
	5mg	\$450.00



## Rebaudioside F

• (4a)-13-[[O-b-D-Glucopyranosyl-(1,3)-O-[b-D-glucopyranosyl-(1,2)]-b-D-glucopyranosyl]oxy]-kaur-16-en-18-oic acid b-D-glucopyranosyl ester

[438045-89-7] C<sub>43</sub>H<sub>68</sub>O<sub>22</sub> 936.99

OR44889	1mg	\$250.00
	2mg	\$400.00
	5mg	\$750.00



## Rebaudioside G

[127345-21-5] C<sub>38</sub>H<sub>60</sub>O<sub>18</sub> 804.87

OR44887	1mg	\$69.00
	2mg	\$280.00
	5mg	\$450.00



## Rebaudioside I

[1220616-34-1] C<sub>50</sub>H<sub>80</sub>O<sub>28</sub> 1129.15

OR46451	1mg	\$400.00
	2mg	\$640.00
	5mg	\$1400.00



## Rebaudioside J

Price On Application

OR46452



## Rebaudioside K

Price On Application

OR46453



## Rebaudioside M

• 13-[[O-b-D-Glucopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl]oxy]-kaur-16-en-18-oic acid (4')-O-b-D-glucopyranosyl-(1,2)-O-[b-D-glucopyranosyl-(1,3)]-b-D-glucopyranosyl ester

[1220616-44-3] C<sub>56</sub>H<sub>90</sub>O<sub>33</sub> 1291.29

OR44885	500ug	\$75.00
	1mg	\$122.00
	2mg	\$204.00



## Rha(a1-6)b-Gal

see *Robiose*, OR34982 on page 248

## 2-O-a-L-Rhamnopyranosyl-D-glucopyranose

see *Neohesperidose*, ON08094 on page 229

R

**Rhamnopyrano****6-O-( $\alpha$ -L-Rhamnopyranosyl)-D-glucopyranose**see *Rutinose*, OR07039 on page 249**2-O-Rhamnosylvitexin**see *Vitexin-2-O-rhamnoside*, OV08033 on page 283**Rhodianin**• *Herbacetin 7-O- $\alpha$ -rhamnopyranoside*

[85571-15-9]

OR74552

2mg	\$81.00
5mg	\$161.00
10mg	\$280.00

**Rhoifolin**see *Apigenin-7-neohesperidoside*, OA65402 on page 34

R

**1-b-D-Ribofuranosyl-3-guanylurea picrate**

- 1-(Diaminomethylene)-3-(beta-D-ribofuranosyl)urea picrate
- 1-Amidino-3-b-D-ribofuranosylurea monopicrate
- Azacitidine Related Compound C

[4336-46-3] C<sub>13</sub>H<sub>17</sub>N<sub>7</sub>O<sub>12</sub> 463.31

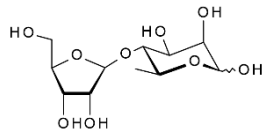
OR63453

10mg	\$65.00
25mg	\$110.00
50mg	\$190.00

**4-O-(b-D-Ribofuranosyl)-L-rhamnopyranose**C<sub>11</sub>H<sub>20</sub>O<sub>9</sub> 296.27

OR16413

Price On Application

**Robinin**• *Kaempferol-3-O-robinoside-7-O-rhamnoside*[301-19-9] C<sub>33</sub>H<sub>40</sub>O<sub>19</sub> 740.66

OR34983

250ug	\$40.00
500ug	\$70.00
1mg	\$127.00

**Robinoside**

- 6-O-(6-Deoxy- $\alpha$ -L-mannopyranosyl)-b-D-galactopyranose
- Rha( $\alpha$ 1-6)b-Gal

[552-74-9] C<sub>12</sub>H<sub>22</sub>O<sub>10</sub> 326.3

OR34982

Price On Application

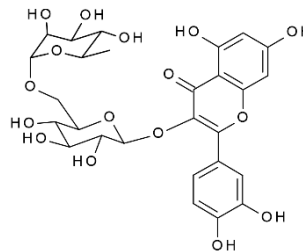
**Rutin**

- *Rutoside*
- *Quercetin-3-rutinoside*

[153-18-4] C<sub>27</sub>H<sub>30</sub>O<sub>16</sub> 610.52

OR29292

100g	\$75.00
250g	\$110.00
500g	\$170.00

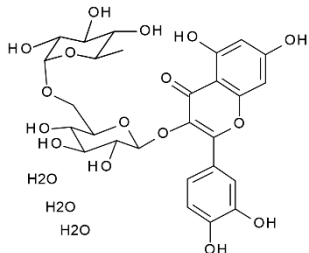


**Rutin hydrate**

- Quercetin-3-rutinoside hydrate
- 3-[[6-O-(6-Deoxy-L-mannopyranosyl)-b-D-glucopyranosyl]oxy]-2-(3,4-dihydroxyphenyl)-5,6-dihydroxy-4H-1-benzopyran-4-one

[153-18-4][250249-75-3][207671-50-9]  $C_{27}H_{30}O_{16} \cdot 3H_2O$  664.56  
 100g \$60.00  
 250g \$105.00  
 500g \$175.00

OR03679



Refs: Magalhães LM, Segundo MA, Siquet C, Reis S, Lima JLFC, *Microchimica Acta*, 2007, 157, 1-2, p113

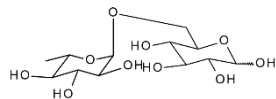
; *Bull. Soc. Chim. Biol.*, 1926, 8, p901

**Rutinose**

- 6-O-(Deoxy- $\alpha$ -L-mannopyranosyl)-D-glucopyranose
- 6-O-( $\alpha$ -L-Rhamnopyranosyl)-D-glucopyranose

[90-74-4]  $C_{12}H_{22}O_{10}$  326.3  
 25mg \$100.00  
 50mg \$178.50  
 100mg \$315.00

OR07039



Refs: Kamiya S, Esaki S, Tanaka R, *Ag. Biolog. Chem.*, 1985, 49, p55

**Rutinose peracetate**

see *Hepta-O-acetylrutinose*, OH07500 on page 147

**Rutinulose**

- 6-O-( $\alpha$ -L-Rhamnopyranosyl)-D-fructose
- 6-O-(6-Deoxy- $\alpha$ -L-mannopyranosyl)-D-fructose

[1360593-47-0]  $C_{12}H_{22}O_{10}$  326.3  
 Price On Application

OR32575

**Rutoside**

see *Rutin*, OR29292 on page 248

**GD2-Saccharide-b-NAC-propargyl**

see *GD2-Oligosaccharide-b-(N-acetyl-propargyl)*, O076149 on page 239

**D-Saccharose**

see *Sucrose*, OS02339 on page 262

**D-Saccharose**

see *Sucrose - USP*, OS59592 on page 262

**D-Saccharose octaacetate**

see *Sucrose octaacetate*, OS03658 on page 263

**Safflomin A**

see *Hydroxysafflor yellow A*, OH08134 on page 156

**Safflor Yellow A**

[85532-77-0]  $C_{27}H_{30}O_{15}$  594.52  
 OS46043 Price On Application



R

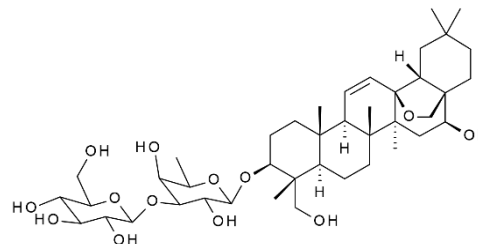
**SAIB**

see *Sucrose acetoisobutyrate*, OS09348 on page 262

**Saikosaponin A**

- (3b,4a,16b)-13,28-Epoxy-16,23-dihydroxyolean-11-en-3-y16-deoxy-3-O-b-D-glucopyranosyl-b-D-fucoside

[20736-09-8]  $C_{42}H_{68}O_{13}$  780.98  
 OS09826 5mg \$50.00  
 10mg \$85.00  
 25mg \$150.00



Refs: *J. Plant. Res. Envi.*, 1996, 5, p60; Chen JC, et.al, *Am. J. Chin. Med.*, 2003, 31, p363; Park KH, et.al, *Phytother Res.*, 2002, 16, p

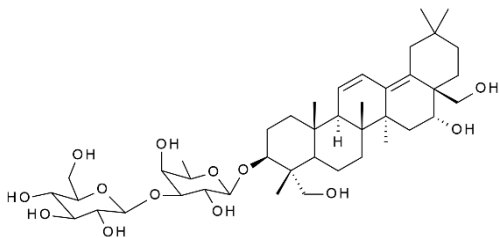
**Saikosaponin****Saikosaponin B2**

• (3b,4a,16a)-16,23,28-Trihydroxyoleana-11,13(18)-dien-3-yl6-deoxy-3-O-b-D-glucopyranosyl-b-D-fucoside

[58316-41-9] C<sub>42</sub>H<sub>68</sub>O<sub>13</sub> 780.98

OS09507

5mg	\$95.00
10mg	\$150.00
25mg	\$250.00



Refs: Zong Z, et.al, Biochem. Biophys. Res. Commun, 1996, 219, p480; Chem. Pharm. Bull, 1980, 28, p2367

**Saikosaponin C**

[20736-08-7] C<sub>48</sub>H<sub>72</sub>O<sub>17</sub> 921.08

OS45923

10mg	\$190.00
25mg	\$375.00
50mg	\$600.00

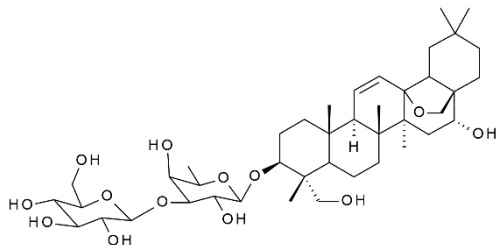
**Saikosaponin D**

• (3b,4a,16a)-13,28-Epoxy-16,23-dihydroxyoleana-11-en-3-yl16-deoxy-3-O-b-D-glucopyranosyl-b-D-fucoside

[20874-52-6] C<sub>42</sub>H<sub>68</sub>O<sub>13</sub> 780.98

OS09508

5mg	\$50.00
10mg	\$80.00
25mg	\$125.00



Refs: Chem. Pharm. Bull, 1980, 28, p2367; Hsu YL, et.al, Life Sci, 2004, 75, p1231; Dobashi I, et.al, Neurosci. Lett, 1995, 197, p235

**Sambubiose**

• b-D-xylopyranosyl-(1→2)-D-glucose

[26388-68-1] C<sub>11</sub>H<sub>20</sub>O<sub>10</sub> 312.27

OS34984

Price On Application

**Sanchinoside R1**

see *Notoginsenoside R1*, ON10463 on page 235

**Saponins**

[8047-15-2]

OS29326

100g	\$50.00
250g	\$100.00
500g	\$210.00

**SBECD**

see *b-Cyclodextrin sulfoethyl ether sodium salt*, OC15979 on page 68

**Serinyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside**

see *2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranosyl-1-O-L-serine*, OA07379 on page 14

**Serinyl T Epitope**

see *2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranosyl-1-O-L-serine*, OA07379 on page 14

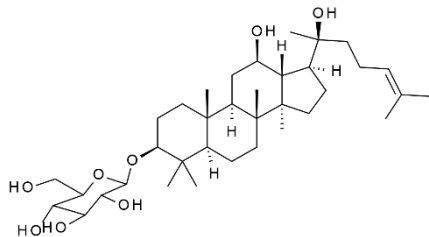
**20(s)-Ginsenoside Rh2**

- (3b,12b)-12,20-Dihydroxydammar-24-en-3-yl b-D-glucopyranoside
- Δ20(22)-Ginsenoside Rg6
- (20E)-Ginsenoside F4

[78214-33-2] C<sub>36</sub>H<sub>62</sub>O<sub>8</sub> 622.89

OG09293

10mg	\$78.80
25mg	\$121.00
50mg	\$184.00



Refs: Han'guk Sikp'um Kwahakhoechi, 1981, 13, p57

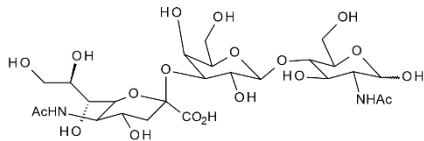
**SGP(a2,6)**see *Sialylglycopeptide*, OS33479 on page 253**Sialo, bisected, biantennary N-linked glycan**see *A2B N-Glycan*, OA28971 on page 132**6-O-a-Sialyl-2-acetamido-2-deoxy-D-galactopyranose**see *2-Acetamido-2-deoxy-6-a-O-sialyl-D-galactopyranose*, OA04844 on page 17**6-O-a-Sialyl-2-acetamido-2-deoxy-a-D-galactopyranosyl-1-O-L-serine**see *2-Acetamido-6-O-(a-2-N-acetylneuraminy)-2-deoxy-a-D-galactopyranosyl serine*, OA07388 on page 11**6-O-a-Sialyl-2-acetamido-2-deoxy-a-D-galactopyranosyl-1-O-L-serine, N acetate**see *2-Acetamido-6-O-(a-2-N-acetylneuraminy)-2-deoxy-a-D-galactopyranosyl N-acetylserine*, OA07389 on page 10**3'-b-Sialyl-N-acetylglucosamine**

- Neu5Ac2-b-3Gal1-b-4GlcNAc

[210418-18-1] C<sub>25</sub>H<sub>42</sub>N<sub>2</sub>O<sub>19</sub> 674.6

OS06118

1mg	\$315.00
2mg	\$525.00

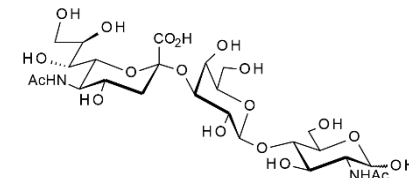
**3'-Sialyl-N-acetylglucosamine**

- 3'-SLN
- 3'-Sialylglucosamine

[126151-66-4] C<sub>25</sub>H<sub>42</sub>N<sub>2</sub>O<sub>19</sub> 674.6

OS00732

1mg	\$100.00
2mg	\$180.00
5mg	\$375.00

**3'-Sialyl-N-acetylglucosamine-BSA**

OS58629

250ug	\$300.00
500ug	\$450.00
1 mg	\$700.00

**3'-Sialyl-N-acetylglucosamine-BSA**

- 3'-Sialyl-N-acetylglucosamine-BSA

OS58630

250ug	\$300.00
500ug	\$450.00
750ug	\$525.00

**3'-a-Sialyl-N-acetylglucosamine-PAA-biotin**

- Neu5Ac-a-2-3-Gal-b-1-4-GlcNAc-O(CH<sub>2</sub>)<sub>3</sub>-PAA-(CH<sub>2</sub>)<sub>6</sub>-biotin

OS137338

500ug	\$600.00
-------	----------



**Sialylacetyl****6'-a-Sialyl-N-acetylglucosamine-PAA-biotin**

- Neu5Ac-a-2-6-Gal-b-1-4-GlcNAc-O(CH<sub>2</sub>)<sub>3</sub>-PAA-(CH<sub>2</sub>)<sub>6</sub>-biotin

OS137337

500ug

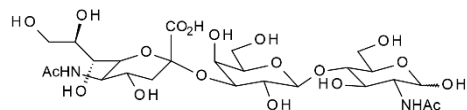
\$600.00

**3'-a-Sialyl-N-acetylglucosamine sodium salt**

- Neu5Ac-a-(2,3)-Gal-b-(1,4)-GlcNAc
- 3'-N-Acetylneuraminyl-N-acetylglucosamine

[81693-22-3] C<sub>25</sub>H<sub>42</sub>N<sub>2</sub>O<sub>19</sub>-Na 697.59

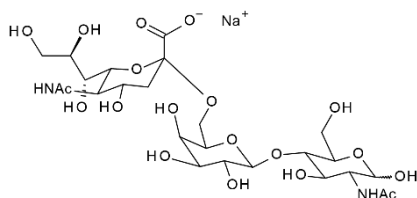
OS06484

1mg  
2mg  
5mg\$75.00  
\$140.00  
\$285.00**6'-a-Sialyl-N-acetylglucosamine sodium salt**

- Neu5Ac-a-(2-6)-Gal-b-(1-4)-GlcNAc
- 6'-N-Acetylneuraminyl-N-acetylglucosamine

[174757-71-2] C<sub>25</sub>H<sub>41</sub>N<sub>2</sub>NaO<sub>19</sub> 696.6

OS09313

1mg  
2mg  
5mg\$99.80  
\$168.00  
\$309.80**3'-a-Sialyl-N-acetylglucosamine-sp-biotin**

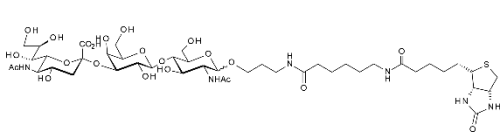
- Neu5Ac-a-2,3-Gal-b-1,4-GlcNAc-O(CH<sub>2</sub>)<sub>3</sub>NHCO(CH<sub>2</sub>)<sub>5</sub>NH-biotin

[870892-22-1] C<sub>44</sub>H<sub>74</sub>N<sub>6</sub>O<sub>22</sub>S 1071.15

OS31042

0.5mg

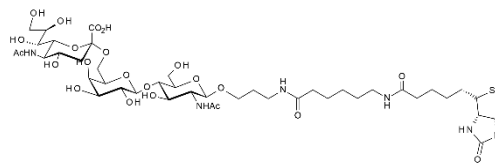
\$735.00

**6'-a-Sialyl-N-acetylglucosamine-sp-biotin**

- Neu5Ac-a-2-6-Gal-b-1-4-GlcNAc-O(CH<sub>2</sub>)<sub>3</sub>NHCO(CH<sub>2</sub>)<sub>5</sub>NH-biotin

[1038746-08-5] C<sub>44</sub>H<sub>73</sub>N<sub>6</sub>O<sub>22</sub>S 1070.14

OS31043

0.5mg  
1mg\$700.00  
\$1200.00**Sialyl-dimeric Lex-nona-APD-HSA**

OS03905

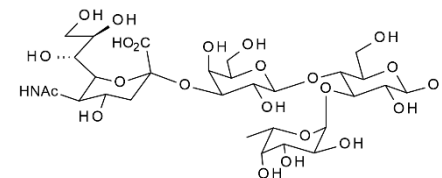
Price On Application

**sialyl, fucosylated, bisected biantennary N-linked glycan**see *A2FB N-Glycan*, OA28972 on page 93**3'-Sialyl-3-fucosyllactose**

- NeuNAc-a2-3-Gal-b1-4(Fuc-a1-3)Glc

C<sub>29</sub>H<sub>49</sub>NO<sub>23</sub> 779.71

OS01065

500ug  
1mg  
2mg\$250.00  
\$450.00  
\$850.00**3'-Sialyl-3-fucosyllactose-BSA**

OS58628

1mg  
2mg  
5mg\$948.51  
\$1517.62  
\$2428.20

S



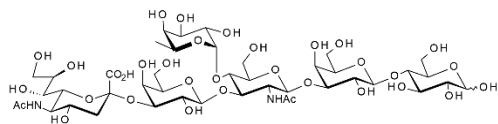
**Sialylfucosyllacto-N-tetraose**

- Sialyl-LNF II
- Sialyl-lea (19-9 antigen)

[84061-53-0] C<sub>43</sub>H<sub>72</sub>N<sub>2</sub>O<sub>33</sub> 1145.03

OS06576

50ug	\$157.50
100ug	\$263.00
250ug	\$525.00

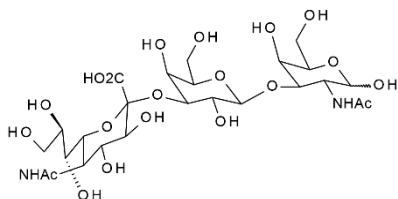
**3'-Sialylgalacto-N-biose sodium salt**

- Neu5Ac-a-2-3-Gal-b-1-3-GalNAc sodium salt
- Neu5Ac(a2-3)Gal(b1-3)GalNAc sodium salt

[1370359-76-4] C<sub>25</sub>H<sub>41</sub>N<sub>2</sub>O<sub>19</sub>Na 696.58

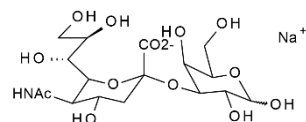
OS09250

1mg	\$195.00
2mg	\$300.00
5mg	\$630.00

**3'-Sialylgalactose sodium salt**[83563-61-5] C<sub>17</sub>H<sub>28</sub>NO<sub>14</sub>·Na 493.39

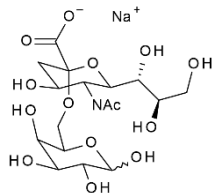
OS09486

1mg	\$99.80
2mg	\$157.50
5mg	\$262.50

**6'-Sialylgalactose sodium salt**[35259-23-5] C<sub>17</sub>H<sub>28</sub>NO<sub>14</sub>·Na 493.39

OS15416

1mg	\$115.50
2mg	\$189.00
5mg	\$399.00

**Sialylglycan**C<sub>78</sub>H<sub>125</sub>N<sub>5</sub>O<sub>57</sub> 2020.81

OS61707

1mg	\$295.00
2mg	\$490.00
5mg	\$775.00

**Sialylglycopeptide**

- SGP(a2,6)

[189035-43-6] C<sub>112</sub>H<sub>189</sub>N<sub>15</sub>O<sub>70</sub> 2865.76

OS33479

10mg	\$850.00
20mg	\$1200.00
50mg	\$1750.00

**3'-Sialyllacto-N-biose**

OS35289

Price On Application

**Sialyllacto-N-fucopentaose I**

- Fuca1-2Galb1-3(Neu5Aca2-6)GlcNAcb1-3Galb1-4Glc

C<sub>43</sub>H<sub>72</sub>N<sub>2</sub>O<sub>33</sub> 1145.03

OS58487

Price On Application



**Sialylactof****Sialylacto-N-fucopentaose II**

- Neu5Aca2-3Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-4Glc

C<sub>43</sub>H<sub>72</sub>N<sub>2</sub>O<sub>33</sub> 1145.03

OS58475

Price On Application

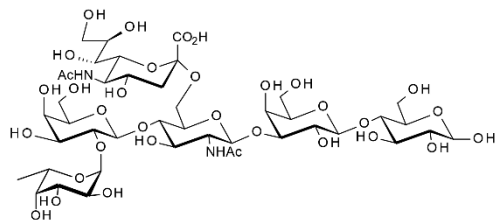
**Sialylacto-N-fucopentaose V**

- Fuc(a1-2)Gal(b1-3)[Neu5Ac(a2-6)]GlcNAc(b1-3)Gal(b1-4)Glc
- Monofucosyl monosialylacto-N-tetraose
- Sialyl LNF V

[89458-13-9] C<sub>43</sub>H<sub>72</sub>N<sub>2</sub>O<sub>33</sub> 1145.03

OS03891

Price On Application

**Sialylacto-N-fucopentaose VI**

- Neu5Aca2-6Galb1-3GlcNAcb1-3Galb1-4(Fuca1-3)Glc

C<sub>43</sub>H<sub>72</sub>N<sub>2</sub>O<sub>33</sub> 1145.03

OS58488

Price On Application

**3'-Sialylacto-N-neotetraose**

- 3'-SLNnT

[100789-83-1] C<sub>37</sub>H<sub>62</sub>N<sub>2</sub>O<sub>29</sub> 998.88

OS158776

Price On Application

**3'-Sialyllactosamine**

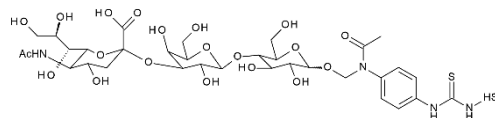
see 3'-Sialyl-N-acetyllactosamine, OS00732 on page 251

**3'-Sialyllactose-APD-HSA**

OS03898

0.5mg

\$446.30

**6'-Sialyllactose-APD-HSA**

OS03901

0.5mg

\$446.30

**3'-Sialyllactose-BSA**

- Neu5Ac-a-2-3-Gal-b-1-4-Glc-spacer BSA

75595.6

OS58388

250ug  
500ug  
1mg\$250.00  
\$400.00  
\$700.00**6'-Sialyllactose-BSA**

72318

OS58390

250ug  
500ug  
1 mg\$250.00  
\$400.00  
\$700.00

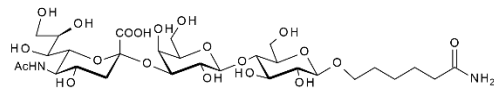
**3'-Sialyllactose-CPG**

- Neu5Ac-a-2-3Gal-b-1-4Glc-b-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CONH<sub>2</sub>

C<sub>29</sub>H<sub>50</sub>N<sub>2</sub>O<sub>20</sub> 746.71

OS04386

Price On Application

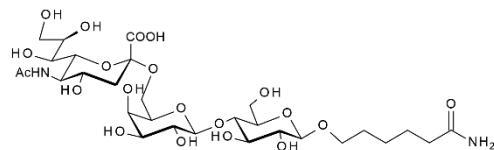
**6'-Sialyllactose-CPG**

- Neu5Ac-a-2-6Gal-b-1-4Glc-b-(CH<sub>2</sub>)<sub>5</sub>CONH-PEG

C<sub>29</sub>H<sub>50</sub>N<sub>2</sub>O<sub>20</sub> 746.71

OS00143

Price On Application

**3'-Sialyllactose-GEL**

OS04148

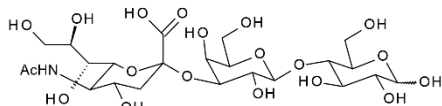
Price On Application

**3'-Sialyllactose sodium salt**

- Neu5Ac-a-2-3-Gal-b-1-4-Glc
- GM3 trisaccharide sodium salt
- 3'-N-Acetylneuraminy-D-lactose sodium salt

[128596-80-5] C<sub>23</sub>H<sub>38</sub>NO<sub>19</sub>Na 655.53

OS04397

25mg  
50mg  
100mg\$50.00  
\$70.00  
\$105.00

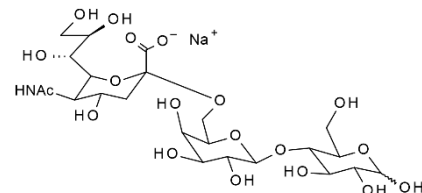
Refs: Beil. 18,V,12,368

**6'-Sialyllactose sodium salt**

- Neu5Ac-a-2-6-Gal-b-1-4-Glc
- 6'-SL
- 6'-N-Acetylneuraminy-D-lactose

[35890-39-2] C<sub>23</sub>H<sub>38</sub>NO<sub>19</sub>Na 655.53

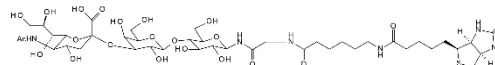
OS04398

50mg \$65.00  
100mg \$95.00  
250mg \$175.00**3'-Sialyllactose-sp-biotin**

- Neu5Ac-a-2-3-Gal-b-1-4-Glc-b-NHCOCH<sub>2</sub>NH-CO(CH<sub>2</sub>)<sub>5</sub>NH-biotin

[1384441-58-0] C<sub>42</sub>H<sub>71</sub>N<sub>5</sub>O<sub>22</sub>S 1030.1

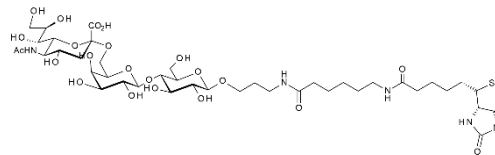
OS31041

0.5mg \$325.00  
1mg \$630.00  
2mg \$1200.00**6'-Sialyllactose-sp-biotin**

- Neu5Ac-a-2-6-Gal-b-1-4-Glc-O(CH<sub>2</sub>)<sub>3</sub>NHCO(CH<sub>2</sub>)<sub>5</sub>NH-biotin

[1384441-62-6] C<sub>42</sub>H<sub>71</sub>N<sub>5</sub>O<sub>22</sub>S 1030.1

OS31040

0.5mg \$750.00  
1mg \$1350.00  
2mg \$2350.00**3'-Sialyllactosyl azide**

OS138918

Price On Application



**Sialyllactos****6'-Sialyllactosyl azide**

OS138915

Price On Application

**Sialyllacto-N-tetraose a**see *LS-tetrasaccharide a sodium salt*, OL03882 on page 181**Sialyllacto-N-tetraose b**see *LS-tetrasaccharide b*, OL03877 on page 181**Sialyllacto-N-tetraose c**see *LS-tetrasaccharide c*, OL06570 on page 181**Sialyl-lea (19-9 antigen)**see *Sialylfucosyllacto-N-tetraose*, OS06576 on page 253**Sialyl-Lea-APD-HSA**

OS02523

Price On Application

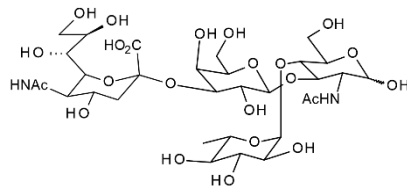
**3'-Sialyl Lewis A**

• Neu5Ac-a-2-3-Gal-b-1-3(Fuc-a-1-4)GlcNAc

[92448-22-1] C<sub>31</sub>H<sub>52</sub>N<sub>2</sub>O<sub>23</sub> 820.74

OS00745

0.5mg	\$78.00
1mg	\$130.00
2mg	\$240.00



Refs: Kameyama A, et al, J. Carbohydr. Chem. 1994, 13(5), 641

**3'-Sialyl Lewis A-PAA-biotin**C<sub>50</sub>H<sub>84</sub>N<sub>6</sub>O<sub>26</sub>S 1217.29

OS45446

0.5mg

\$750.00

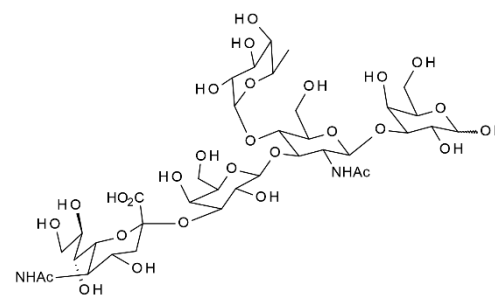
**Sialyl Lewis A pentaose**

• Neu5Ac-a-2-3-Gal-b-1-3(Fuc-a-1-4)GlcNAc-b-1-3-Gal

C<sub>37</sub>H<sub>62</sub>N<sub>2</sub>O<sub>28</sub> 982.9

OS09848

Price On Application

**Sialyl Lewisia (Slea)-BSA**

OS58405

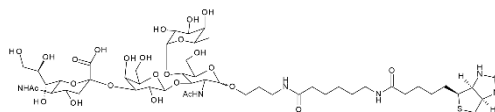
1mg	\$2149.49
2mg	\$3439.18
5mg	\$5502.70

**3'-Sialyl Lewis A-sp-biotin**• Neu5Ac-a-2-3-Gal-b-1-3(Fuc-a-1-4)GlcNAc-O(CH<sub>2</sub>)<sub>3</sub>NHCO(CH<sub>2</sub>)<sub>5</sub>NH-biotin[870892-98-1] C<sub>50</sub>H<sub>84</sub>N<sub>6</sub>O<sub>26</sub>S 1217.29

OS31037

0.5mg

\$603.80



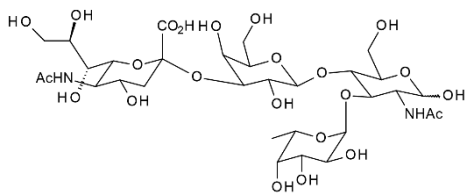
**3'-Sialyl Lewis X**

• NeuNAc-a2-3Gal-b1-4(Fuc-a1-3)GlcNAc

[98603-84-0] C<sub>31</sub>H<sub>52</sub>N<sub>2</sub>O<sub>23</sub> 820.74

OS04058

1mg	\$115.50
2mg	\$189.00
5mg	\$315.00

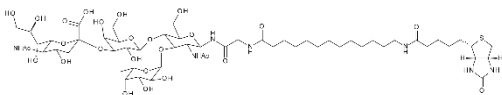


Refs: Chandrasekaran EV, Jain RK, Larsen RD, Wlasichuk K, Biochem, 1995, 34, p2925

**3'-Sialyl Lewis X- biotin**C<sub>56</sub>H<sub>95</sub>N<sub>7</sub>O<sub>26</sub>S 1314.45

OS11510

1mg	\$695.00
2mg	\$1340.00
5mg	\$2625.00

**3'-Sialyl Lewisx-BSA**

OS58625

1mg	\$3083.71
2mg	\$4933.94
5mg	\$7894.30

**3'-Sialyl Lewisx-BSA**

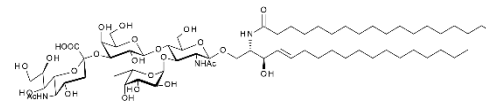
OS58626

1mg	\$2122.26
2mg	\$3395.62
5mg	\$5433.00

**Sialyl Lewis X ceramide**C<sub>67</sub>H<sub>121</sub>N<sub>3</sub>O<sub>25</sub> 1368.68

OS32478

Price On Application

**Sialyl Lewis X cholesterol**

OS32479

Price On Application

**3'-Sialyl Lewis x-HSA**

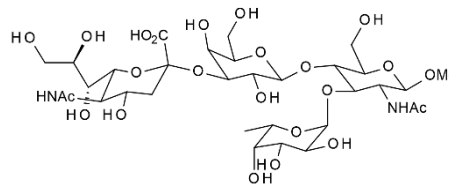
OS58627

1mg	\$2122.26
2mg	\$3395.62
5mg	\$5433.00

**Sialyl Lewis X methyl glycoside**[141612-87-5] C<sub>32</sub>H<sub>54</sub>N<sub>2</sub>O<sub>23</sub> 834.77

OS04855

0.5mg	\$120.00
1mg	\$195.00
2mg	\$360.00

**Sialyl Lewisx-b-methyl glycoside**C<sub>32</sub>H<sub>54</sub>N<sub>2</sub>O<sub>23</sub> 834.77

OS58474

1mg	\$250.00
2mg	\$470.00
5mg	\$1000.00



**SialylLewisX****3'-Sialyl Lewis X-PAA-biotin**

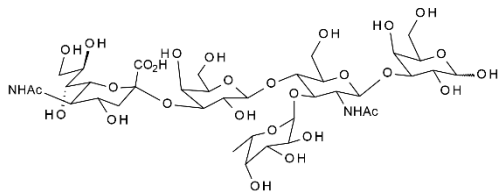
OS31954	0.5mg	\$650.00
	1mg	\$1200.00
	2mg	\$2300.00

**Sialyl Lewis X pentose**

• Neu5Ac-a-2-3-Gal-b-1-4(Fuc-a-1-3)GlcNAc-b-1-3-Gal

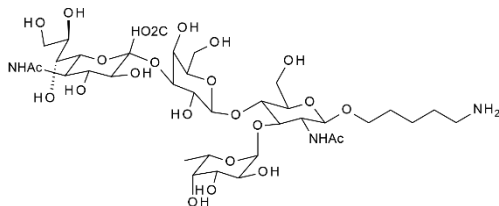
C<sub>37</sub>H<sub>61</sub>N<sub>2</sub>O<sub>28</sub>Na 1004.87

OS09845	1mg	\$120.00
	2mg	\$200.00
	5mg	\$350.00

**3'-Sialyl Lewis X b 1-O-n-pentylamine**

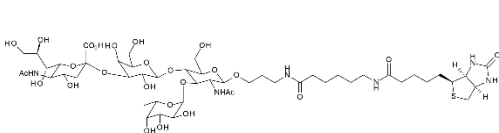
C<sub>36</sub>H<sub>63</sub>N<sub>3</sub>O<sub>24</sub> 921.89

OS09280	10mg	\$5775.00
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**3'-Sialyl Lewis X-sp-biotin**

C<sub>50</sub>H<sub>84</sub>N<sub>6</sub>O<sub>26</sub>S 1217.29

OS31953	0.5mg	\$550.00
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**Sialyl-Lex-hexa-APD-HSA**

OS02522

Price On Application

**Sialyl-LNF II**

see *Sialylfucosyllacto-N-tetraose*, OS06576 on page 253

**Sialyl LNF V**

see *Sialyllacto-N-fucopentaose V*, OS03891 on page 254

**Sialyl-LNF V-APD-HSA**

OS03904

Price On Application

**Siamenoside I**

[126105-12-2] C<sub>54</sub>H<sub>92</sub>O<sub>24</sub> 1125.29

OS44892	5mg	\$150.00
	10mg	\$250.00
	25mg	\$350.00

**Sieboldin**

see *Phloretin-3-hydroxy-4'-O-glucoside*, OP146387 on page 242

**Silyl(6-O-tert-butylidimethyl)-2,3-di-acetyl)-b-cyclodextrin**

see *Heptakis(2,3-di-O-acetyl-6-O-tert-butylidimethylsilyl)cyclomaltoheptaose*, OH46499 on page 148

**6'-SL**

see *6'-Sialyllactose sodium salt*, OS04398 on page 255

S

**3'-SL-gly**see *NeuAc-a2,3-Gal-b-1,4-Glc-GlycineNH2*, ON09339 on page 230**3'-SLN**see *3'-Sialyl-N-acetyllactosamine*, OS00732 on page 251**3'-SLNnT**see *3'-Sialyllacto-N-neotetraose*, OS158776 on page 254**Sodium sulphobutylether-b-cyclodextrin**see *b-Cyclodextrin sulfobutyl ether sodium salt*, OC15979 on page 68**Sodium Tylose**see *Carboxymethyl cellulose sodium - Viscosity 1400 - 2000cps*, OC03666 on page 55**a-Solamargine**

• Solasodine-L-rhamnosido-D-glucoside

[20311-51-7] C<sub>45</sub>H<sub>73</sub>NO<sub>15</sub> 868.06

OS65545	1mg	\$80.00
	2mg	\$120.00
	5mg	\$200.00

**Solamargine and Solasonine (mixture)**

OS110265	1mg	\$30.00
	2mg	\$50.00
	5mg	\$100.00

**Solanin D**

• Demissidine

[474-08-8] C<sub>27</sub>H<sub>45</sub>NO 399.65

OS65883	1mg	\$70.00
	2mg	\$120.00
	5mg	\$280.00

**a-Solanine**[20562-02-1] C<sub>45</sub>H<sub>73</sub>NO<sub>15</sub> 868.06

OS29324	5mg	\$183.80
	10mg	\$304.50
	25mg	\$656.50

**Solasodamine**see *Solasonine*, OS65589 on page 259**Solasodine**

[126-17-0]

OS73940	5mg	\$52.00
	10mg	\$90.00
	25mg	\$180.00

**Solasodine-L-rhamnosido-D-glucoside**see *a-Solamargine*, OS65545 on page 259**Solasonine**

• Solasodamine

[19121-58-5] C<sub>45</sub>H<sub>73</sub>NO<sub>16</sub> 884.06

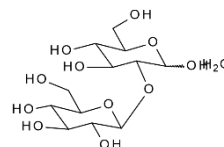
OS65589	1mg	\$80.00
	2mg	\$120.00
	5mg	\$200.00

**a-Sophorose monohydrate**

• 2-O-(b-D-Glucopyranosyl)-a-D-glucose monohydrate

[20429-79-2][20880-64-2] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O 360.31

OS06893	10mg	\$130.00
	25mg	\$200.00
	50mg	\$315.00



**SSEAhexaose****SSEA-4 hexaose**

• Neu5Aca2-3Galb1-3GalNAcb1-3Gala1-4Galb1-4Glc

C<sub>43</sub>H<sub>71</sub>N<sub>2</sub>O<sub>34</sub>Na 1183.01

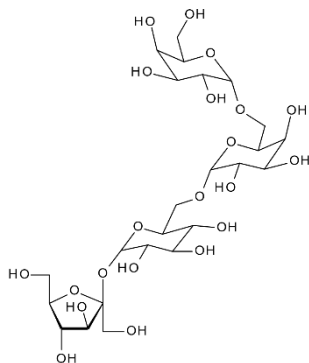
OS59465	1mg	\$390.00
	2mg	\$500.00
	5mg	\$1000.00

**Stachyose - 70%**

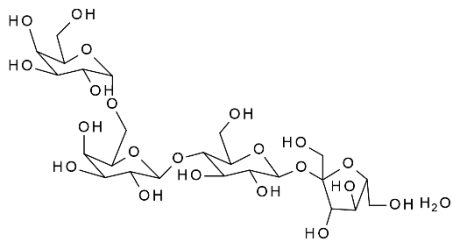
• b-D-Fructofuranosyl-O-a-D-galactopyranosyl-1-6-O-a-D-galactopyranosyl-1-6-a-D-glucopyranoside

[470-55-3] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.59

OS04261	100g	\$50.00
	250g	\$77.50
	500g	\$125.00

**Stachyose hydrate - 80%**[54261-98-2][10094-58-3] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub>·H<sub>2</sub>O 684.59

OS01892	25g	\$60.00
	50g	\$100.00
	100g	\$150.00



Refs: Wolfrom ML, Burrell RC, Thompson A, Furst SS, J. Am. Chem. Soc. 1952, p6299

**Stachyose hydrate - 98%**[54261-98-2][10094-58-3] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

OS31795	100mg	\$70.00
	250mg	\$162.50
	500mg	\$225.00

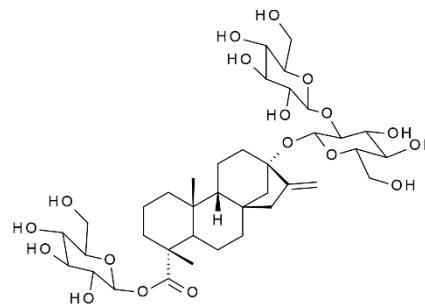
**Steviol glycosides**

[57817-89-7][58543-16-1]

OS45158	50g	\$65.00
	100g	\$100.00
	250g	\$200.00

**Stevioside - min 80%**[57817-89-7] C<sub>38</sub>H<sub>60</sub>O<sub>18</sub> 804.87

OS09396	50g	\$45.00
	100g	\$75.00
	250g	\$125.00



Refs: J. Org. Chem, 1955, 20, p875

**Stevioside - min 95%**[57817-89-7] C<sub>38</sub>H<sub>60</sub>O<sub>18</sub> 804.87

OS46367	50mg	\$69.00
	100mg	\$110.00
	250mg	\$200.00

**Stevioside A4**see *Rebaudioside B, OR44880* on page 246



## Sucralfate

## STn Antigen

see 2-Acetamido-6-O-(a-2-N-acetylneuraminy)-2-deoxy-a-D-galactopyranosyl threonine, OA46896 on page 11

## STn Antigen (Threonine, Fmoc, peracetylated, methyl ester)

see 2-Acetamido-3,4-di-O-acetyl-6-O-[a-2-(4,7,8,9-tetra-O-acetyl-N-acetyl-D-neuraminic acid methyl ester)]-2-deoxy-a-D-galactopyranosyl Fmochreonine, OA46897 on page 18

## STN-biotin

see 2-Acetamido-6-O-(a-2-N-acetylneuraminy)-2-deoxy-a-D-galactopyranosyl serine-biotin, OA15986 on page 11

## STN Epitope

see 2-Acetamido-6-O-(a-2-N-acetylneuraminy)-2-deoxy-a-D-galactopyranosyl serine, OA07388 on page 11

## STN Epitope N-acetate

see 2-Acetamido-6-O-(a-2-N-acetylneuraminy)-2-deoxy-a-D-galactopyranosyl N-acetylserine, OA07389 on page 10

## Succinyl-a-cyclodextrin

$C_{60}H_{74}O_{40}$  1315.1

OS34950	250mg	\$100.00
	500mg	\$150.00
	1g	\$262.50



## Succinyl-b-cyclodextrin

[957494-34-7]

OS34074	500mg	\$95.00
	1g	\$175.00
	2g	\$300.00



## Succinyl-gamma-cyclodextrin

$C_{48}H_{80+n}O_{40}-(C_4H_5O_3)_n$  1297.2 + n(100.1)

OS34951	250mg	\$65.00
	500mg	\$115.00
	1g	\$195.00



## Succinyl-(2-hydroxypropyl)-a-cyclodextrin

• SuHPACD

OS34956	500mg	\$265.00
	1g	\$414.80
	2g	\$735.00



## Succinyl-(2-hydroxypropyl)-b-cyclodextrin

• SuHPBCD

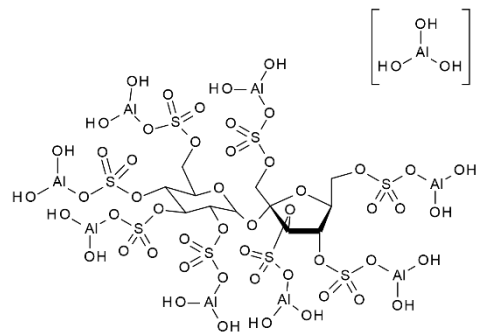
$C_{70}H_{110}O_{51}$ 1767.59	250mg	\$150.00
OS34955	500mg	\$210.00
	1g	\$375.00



## Sucralfate

• Sucrose octasulfate aluminium salt

[54182-58-0] $C_{12}H_{54}Al_8O_{76}S_8$ 2086.74	50g	\$50.00
OS05733	100g	\$85.00
	250g	\$157.50



Refs: Brogden RN, et al, Drugs 1984, 27, 194

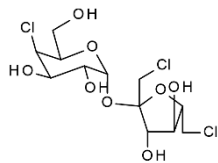


**Sucralose****Sucralose**

• 1,6-Dichloro-1,6-dideoxy-b-D-fructofuranosyl-4-chloro-4-deoxy-a-D-galactopyranoside

[56038-13-2] C<sub>12</sub>H<sub>19</sub>Cl<sub>3</sub>O<sub>8</sub> 397.63

OS04165	100g	\$60.00
	250g	\$125.00
	500g	\$200.00



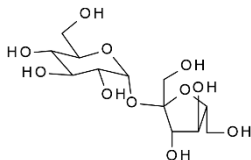
Refs: Bennett C, Dordick JS, Hacking AJ, Cheatham PSJ, Biotechnol. Bioeng. 1992, Vol39, Issue 2, p211-217

**Sucrose**

• D-Saccharose

[57-50-1] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OS02339	1kg	\$40.00
	2kg	\$63.00
	5kg	\$126.00



Refs: Porchia AC, Fiol DF, Salerno GL, Plant Sci. 1999

**Sucrose - USP**

• D-Saccharose

[57-50-1] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

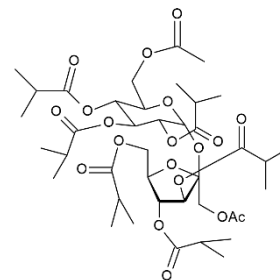
OS59592	50g	\$210.00
	100g	\$280.00
	250g	\$350.00

**Sucrose acetoisobutyrate**

• SAIB

[126-13-6][27216-37-1] C<sub>40</sub>H<sub>62</sub>O<sub>19</sub> 846.91

OS09348	1kg	\$65.00
	2Kg	\$120.00
	5Kg	\$275.00

**Sucrose cocoate**

[91031-88-8]

OS09349	100mg	\$90.00
	250mg	\$157.50
	500mg	\$265.00

**Sucrose dipalmitate**[248917-86-4] C<sub>44</sub>H<sub>82</sub>O<sub>13</sub> 819.11

OS63330

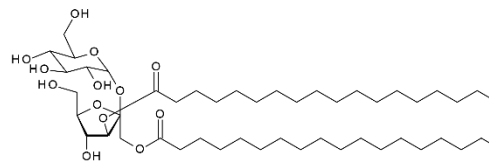
Price On Application

**Sucrose distearate - 30% monostearate**

• b-D-Fructofuranosyl-a-D-glucopyranoside dioctadecanoate

[84066-95-5][27195-16-0] C<sub>48</sub>H<sub>90</sub>O<sub>13</sub> 875.24

OS09350	250g	\$70.00
	500g	\$110.00
	1kg	\$195.00



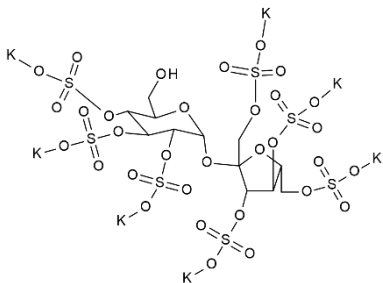
**Sucrose heptasulfate potassium salt**

• 1,3,4,6-Tetra-O-sulfo-b-D-fructofuranosyl a-D-glucopyranoside 2,3,4-tris(hydrogen sulfate) heptapotassium salt

[386229-69-2] C<sub>12</sub>H<sub>15</sub>K<sub>7</sub>O<sub>32</sub>S<sub>7</sub> 1169.38

OS06653

10mg	\$75.00
25mg	\$125.00
50mg	\$225.00

**Sucrose, monooctadecanoate**

[25168-73-4] C<sub>30</sub>H<sub>56</sub>O<sub>12</sub> 608.76

OS15187

100g	\$70.00
250g	\$132.50
500g	\$210.00

**Sucrose monopalmitate**

[24516-45-8] C<sub>28</sub>H<sub>52</sub>O<sub>12</sub> 580.71

OS32183

10mg	\$89.30
25mg	\$157.50
50mg	\$236.50

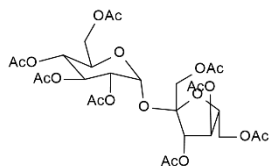
**Sucrose octaacetate**

• D-Saccharose octaacetate

[126-14-7] C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.59

OS03658

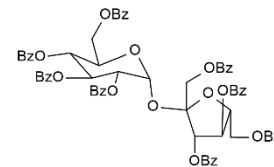
500g	\$60.00
1kg	\$90.00
2kg	\$160.00

**Sucrose octabenzoate**

[12738-64-6] C<sub>68</sub>H<sub>54</sub>O<sub>19</sub> 1175.14

OS06110

500g	\$55.00
1kg	\$100.00
2kg	\$180.00



Refs: Birch GG, BioFactors 1999, Vol9, No1, p73-80

**Sucrose octasulfate aluminum salt**

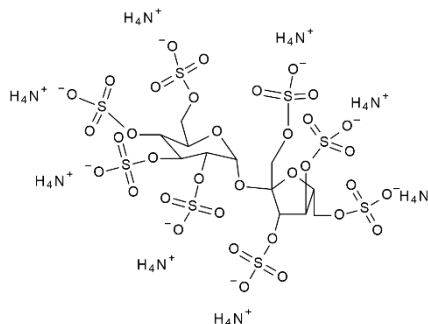
see *Sucralfate*, OS05733 on page 261

**Sucrose octasulfate ammonium salt**

[74135-13-0] C<sub>12</sub>H<sub>14</sub>O<sub>35</sub>S<sub>8</sub>·N<sub>8</sub>H<sub>32</sub> 1119.05

OS07384

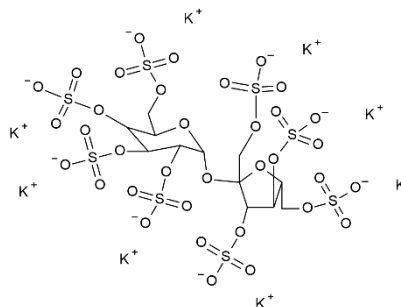
250mg	\$55.00
500mg	\$90.00
1g	\$165.00

**Sucrose octasulfate potassium salt**

[73264-44-5][111757-57-4] C<sub>12</sub>H<sub>14</sub>K<sub>8</sub>O<sub>35</sub>S<sub>8</sub> 1287.55

OS07385

1g	\$65.00
2g	\$110.00
5g	\$200.00



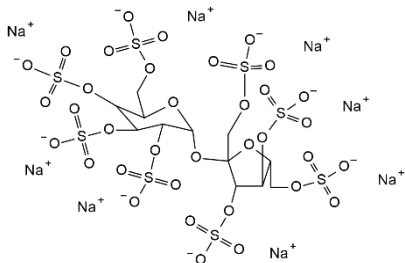
## Sucroseoctas

## Sucrose octasulfate sodium salt

• 1,3,4,6-Tetra-O-sulfo-b-D-fructofuranosyl-2,3,4,6-tetrakis(hydrogen sulfate)-a-D-glucopyranoside sodium salt

[127930-09-0][74135-10-7] C<sub>12</sub>H<sub>14</sub>Na<sub>8</sub>O<sub>35</sub>S<sub>8</sub> 1158.66

OS07386	500mg	\$95.00
	1g	\$135.00
	2g	\$260.00



## Sucrose octasulfate triethylammonium salt

C<sub>12</sub>H<sub>22</sub>O<sub>35</sub>S<sub>8</sub>·2(C<sub>6</sub>H<sub>15</sub>N) 1185.19

OS59824	500mg	\$50.00
	1g	\$80.00
	2g	\$140.00

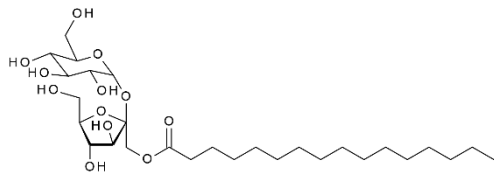


## Sucrose palmitate

• b-D-Fructofuranosyl-a-D-glucopyranoside monohexadecanoate

[26446-38-8] C<sub>28</sub>H<sub>52</sub>O<sub>12</sub> 508.72

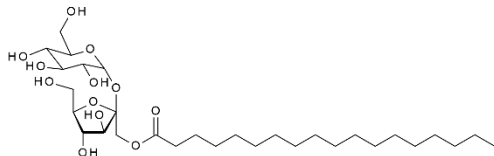
OS09351	250g	\$60.00
	500g	\$105.00
	1kg	\$175.00



## Sucrose stearate - 70% monostearate

[25168-73-4] C<sub>30</sub>H<sub>56</sub>O<sub>12</sub> 608.77

OS09352	250g	\$70.00
	500g	\$110.00
	1kg	\$195.00

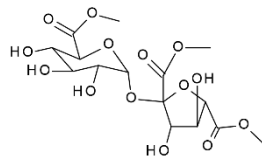


## Sucrose 1,6,6'-tricarboxylic acid trimethyl ester

C<sub>15</sub>H<sub>22</sub>O<sub>14</sub> 426.33

OS07387

50mg	\$89.50
100mg	\$158.00
250mg	\$262.50



## SuHPACD

see Succinyl-(2-hydroxypropyl)-a-cyclodextrin, OS34956 on page 261

## SuHPBCD

see Succinyl-(2-hydroxypropyl)-b-cyclodextrin, OS34955 on page 261

## 6-Su-LacNAc

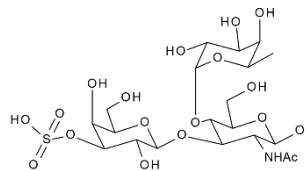
see 2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-6-sulfo-b-D-glucopyranose, OA08186 on page 15

## 3'-Sulfated Lewis A

[153088-71-2] C<sub>20</sub>H<sub>35</sub>NO<sub>16</sub>S 609.55

OS05428

250ug	\$105.00
500ug	\$160.00
1mg	\$220.00



Refs: Lubineau A, Le Gallic J, Lemoine R, Bioorg. Med. Chem. 1994, p1143-51



## 6'-O-Sulfated Lewis A

OS58478

1mg	\$748.47
2mg	\$1197.56
5mg	\$1916.10



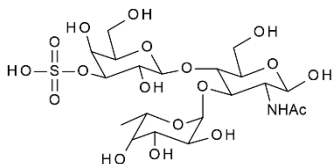
## 6-O-Sulfated Lewis A

OS58480	1mg	\$748.47
	2mg	\$1197.56
	5mg	\$1916.10



## 3'-Sulfated Lewis X

[152932-65-5]	C <sub>20</sub> H <sub>35</sub> NO <sub>18</sub> S	609.55	
OS04132	250ug	\$105.00	
	500ug	\$160.00	
	1mg	\$220.00	



Refs: Leteuxa C, Chaia W, Lovelessa RW, Yuenb C-T, Uhlin-Hansenc L, Combarnousd Y, Jankovice M, Marice SC, Misulovine Z, Nussenzweige MC, Feizia T. J. Exp. Med. 2000, Vol191, No7, p1117-1126

## 6'-O-Sulfated Lewis X

OS58479	1mg	\$748.47
	2mg	\$1197.56
	5mg	\$1916.10



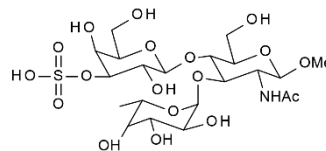
## 6-O-Sulfated Lewis X

OS58481	1mg	\$748.47
	2mg	\$1197.56
	5mg	\$1916.10



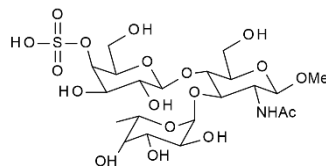
## 3'-Sulfated Lewis X methyl glycoside

[386264-50-2]	C <sub>21</sub> H <sub>37</sub> NO <sub>18</sub> S	623.58	
OS06487	0.1mg	\$105.00	
	0.25mg	\$210.00	
	0.5mg	\$367.50	



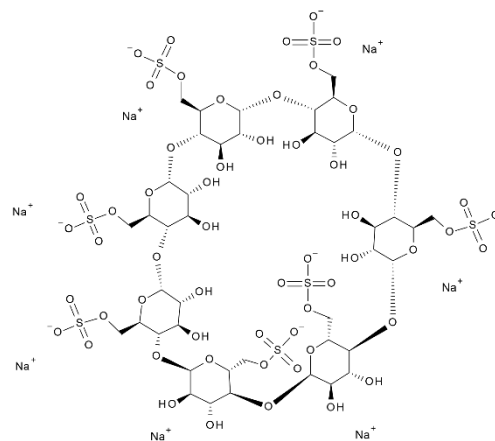
## 4'-Sulfated Lewis X methyl glycoside

[386229-72-7]	C <sub>21</sub> H <sub>37</sub> NO <sub>18</sub> S	623.58	
OS04856	0.1mg	\$78.80	
	0.25mg	\$170.70	
	0.5mg	\$315.00	



## 6-O-Sulfo-b-cyclodextrin sodium salt

[197587-31-8]	C <sub>42</sub> H <sub>63</sub> Na <sub>7</sub> O <sub>56</sub> S <sub>7</sub>	1849.31	
OH23758	100mg	\$175.00	
	250mg	\$290.00	
	500mg	\$550.00	



Refs: Friedlander, A, et al, J. Biol. Chem, 261, 7123 (1986)

## 4-O-(3-O-Sulfo-b-D-galactopyranosyl)-D-glucopyranose

see Lactose 3'-sulfate, OL07231 on page 170



**SulphatedLew****6-O-Sulphated Lewisa-BSA**

OS58389	1mg	\$288.01
	2mg	\$460.82
	5mg	\$737.30

**3'-Sulpho Lewisa-BSA**

OS58563	0.5mg	\$425.00
	1mg	\$750.00
	2mg	\$1450.00

**6'-Sulpho Lewisa-BSA**

OS58565	1mg	\$2000.00
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**Sulpho Lewisa Na**

631.54		
OS58476	1mg	\$71.32
	2mg	\$114.12
	5mg	\$182.60

**3'-Sulpho Lewisx-BSA**

OS58564	0.5mg	\$425.00
	1mg	\$750.00
	2mg	\$1450.00

**6'-Sulpho Lewisx-BSA**

OS58566	1mg	\$2000.00
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**Sulpho Lewis Na**

631.54		
OS58477	1mg	\$71.32
	2mg	\$114.12
	5mg	\$182.60

**(-)-Syringaresinol-4"-O-b-D-monoglucopyranoside**

[137038-13-2]	$C_{28}H_{36}O_{13}$	580.58	
OS74993			25mg \$475.00

**(-)-Syringaresinol-4-O-b-D-apiofuranosyl-(1→2)-b-D-glucopyranoside**

[136997-64-3]	$C_{33}H_{44}O_{17}$	712.69	
OS73933	2mg	\$58.00	
	5mg	\$115.00	
	10mg	\$200.00	

**Tamarind seed powder**

OT157253	Price On Application
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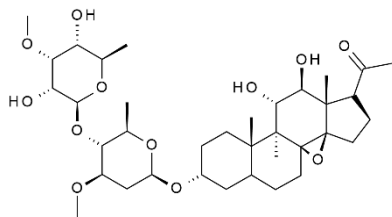
S

**Tauroside H2**see *Hederacoside C*, OH32563 on page 140**TDB**see *Trehalose-6,6'-dibehenate*, OT46136 on page 274**TDG**see *(D-Galactopyranosyl)-b-D-thiogalactopyranoside*, OG05033 on page 106**Tenacigenoside A**

[920502-42-7]

Price On Application

OT44162

**6-Tert-butylidimethylsilyl-b-cyclodextrin**

• Heptakis-(6-O-tert-butylidimethylsilyl)-b-cyclodextrin

[123155-03-3] C<sub>84</sub>H<sub>168</sub>O<sub>35</sub>Si<sub>7</sub> 1934.81

OT44669

250mg	\$200.00
500mg	\$300.00
1g	\$490.00

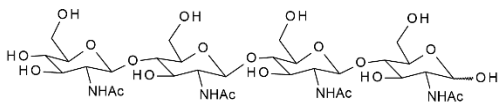
**N,N',N'',N'''-Tetraacetylchitotetraose**

- Tetra-N-acetyl chitotetraose
- GlcNAc-b-1,4-GlcNAc-b-1,4-GlcNAc-b-1,4-GlcNAc

[2706-65-2] C<sub>32</sub>H<sub>54</sub>N<sub>4</sub>O<sub>21</sub> 830.79

OT04211

1mg	\$50.00
2mg	\$80.00
5mg	\$150.00



Refs: Suzuki K, et al, Carbohydr. Res. 1986, 151, p403; Barber B, et al, Physiol. Molec. Plant Pathol. 1989, 34, 3; Rohrig H, et al, Science 1995, 269, 841

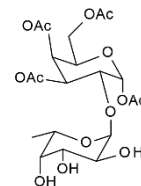
**Tetra-N-acetyl chitotetraose**see *N,N',N'',N'''-Tetraacetylchitotetraose*, OT04211 on page 267**1,3,4,6-Tetra-O-acetyl-2-(6-deoxy-a-L-galactopyranosyl)-a-D-galactopyranose**

• 2-O-(6-Deoxy-a-L-galactopyranosyl)-a-D-galactopyranose 1,3,4,6-tetraacetate

[56822-34-5] C<sub>20</sub>H<sub>30</sub>O<sub>14</sub> 494.44

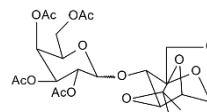
OT16492

5mg	\$124.90
10mg	\$227.20
25mg	\$413.00

**4-O-b-(2,3,4,6-Tetra-O-acetyl-D-galactopyranosyl)-1,6-anhydro-2,3-O-isopropylidene-b-D-mannopyranose**C<sub>23</sub>H<sub>32</sub>O<sub>14</sub> 532.49

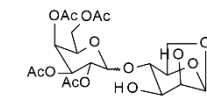
OT07372

500mg	\$80.00
1g	\$157.50
2g	\$262.50

**4-O-b-(2,3,4,6-Tetra-O-acetyl-D-galactopyranosyl)-1,6-anhydro-D-mannopyranoside**C<sub>20</sub>H<sub>28</sub>O<sub>14</sub> 492.43

OT07374

50mg	\$100.00
100mg	\$158.00
250mg	\$262.50



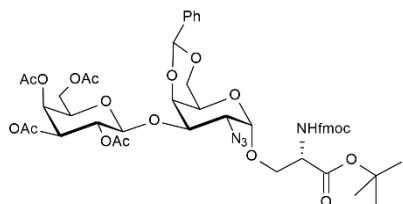
## Tetraacetyl

## 3-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-2-azido-4,6-O-benzylidene-2-deoxy-a-D-galactopyranosyl-Fmoc serine tert-butyl ester

[1477460-73-3] C<sub>49</sub>H<sub>58</sub>N<sub>4</sub>O<sub>18</sub> 988.99

Price On Application

OT30752

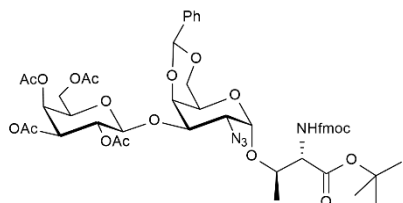


## 3-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-2-azido-4,6-O-benzylidene-2-deoxy-a-D-galactopyranosyl-Fmoc threonine tert-butyl ester

[195976-08-0] C<sub>50</sub>H<sub>58</sub>N<sub>4</sub>O<sub>18</sub> 1003.01

Price On Application

OT34878



## 4-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-1,2,3,6-tetra-O-acetyl-D-glucopyranose

see *Lactose octaacetate*, OL02883 on page 170

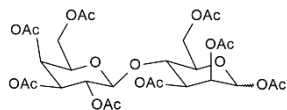
## 4-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-1,2,3,6-tetra-O-acetyl-D-mannopyranose

• 4-O-(b-D-Galactopyranosyl)-D-mannopyranose octaacetate

C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.59

OT10386

25mg	\$79.00
50mg	\$147.00
100mg	\$263.00



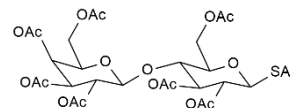
## 4-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-1,2,3,6-tetra-O-acetyl-b-D-thioglucofuranose

• b-D-Thiolactose octaacetate

C<sub>28</sub>H<sub>38</sub>O<sub>18</sub>S 694.66

OT10928

50mg	\$94.50
100mg	\$158.00
250mg	\$330.00

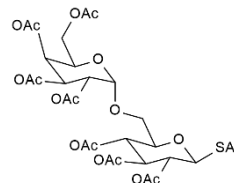


## 6-O-(2,3,4,6-Tetra-O-acetyl-a-D-galactopyranosyl)-1,2,3,6-tetra-O-acetyl-b-D-thioglucofuranose

C<sub>28</sub>H<sub>38</sub>O<sub>18</sub>S 694.66

OT10931

50mg	\$85.00
100mg	\$150.00
250mg	\$275.00



## 4-O-(2,3,4,6-Tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranose 2,3,6-triacetate 1-(2,2,2-trichloroethanimidate)

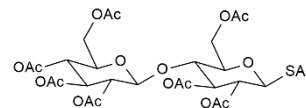
see *b-D-Lactosyltrichloroacetimidate heptaacetate*, OL16464 on page 171

## 4-O-(2,3,4,6-Tetra-O-acetyl-b-D-glucopyranosyl)-1,2,3,6-tetra-O-acetyl-b-D-thioglucofuranose

C<sub>28</sub>H<sub>38</sub>O<sub>18</sub>S 694.66

OT10929

100mg	\$95.00
250mg	\$210.00
500mg	\$370.00



## O-2,3,4,6-Tetra-O-acetyl-a-D-glucopyranosyl-(14)-O-2,3,6-tri-O-acetyl-a-D-glucopyranosyl-(14)-D-glucose 2,3,5,6-tetraacetate

see *D-Maltotriose undecaacetate*, OM10964 on page 187

## O-2,3,4,6-Tetra-O-acetyl-a-D-glucopyranosyl-(16)-O-2,3,4-tri-O-acetyl-a-D-glucopyranosyl-(14)-O-2,3,6-tri-O-acetyl-a-D-glucopyranosyl-(14)-D-glucopyranose tetraacetate

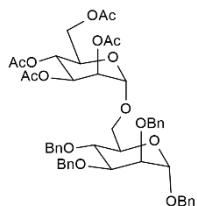
see *6-a-D-Glucopyranosylmaltotriose tetradecaacetate*, OG16461 on page 130



**6-O-(2,3,4,6-Tetra-O-acetyl-a-D-mannopyranosyl)-D-mannopyranose tetraacetate**see *1,2,3,4-Tetra-O-acetyl-6-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-D-mannopyranose*, OT04463 on page 270**6-O-(2,3,4,6-Tetra-O-acetyl-a-D-mannopyranosyl)-1,2,3,4-tetra-O-benzyl-a-D-mannopyranoside**C<sub>48</sub>H<sub>54</sub>O<sub>15</sub> 870.93

OT06510

5mg	\$99.80
10mg	\$157.50
25mg	\$262.50

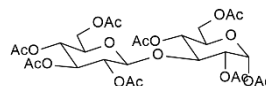
**1,2,3,6-Tetra-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-a-D-glucopyranosyl)-a-D-glucopyranose**see *a-D-Maltose octaacetate*, OM16777 on page 185**1,2,4,6-Tetra-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-a-D-glucopyranose**

• Laminaribiose octaacetate

[51157-42-7] C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.6

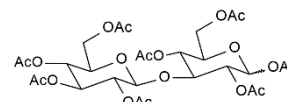
OT07230

2mg	\$90.00
5mg	\$150.00
10mg	\$250.00

**1,2,4,6-Tetra-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-D-glucopyranose**• 3-O-(b-D-Glucopyranosyl)-D-glucopyranose octaacetate  
• Laminaribiose octaacetate[22551-65-1] C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.59

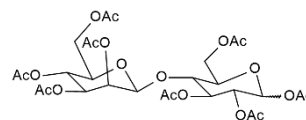
OT04763

Price On Application

**1,2,4,6-Tetra-O-acetyl-3-O-[3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-2,4,6-tri-O-acetyl-b-D-glucopyranosyl]-a-D-glucopyranose**see *Laminaritriose hendecaacetate*, OL46481 on page 173**1,2,3,6-Tetra-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-mannopyranosyl)-D-glucopyranose**C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.59

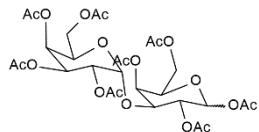
OT06530

2mg	\$94.50
5mg	\$183.80
10mg	\$262.50

**1,2,4,6-Tetra-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-a-D-galactopyranosyl)-D-galactopyranose**[123809-61-0] C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.59

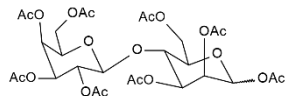
OT06528

50mg	\$875.00
100mg	\$1500.00
250mg	\$2250.00

**1,2,3,6-Tetra-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-D-mannopyranose**[20880-65-3] C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.59

OT07422

50mg	\$125.00
100mg	\$220.00
250mg	\$475.00

**1,2,3,4-Tetra-O-acetyl-6-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranose**see *b-Gentiobiose octaacetate*, OG05092 on page 117**1,2,3,4-Tetra-O-acetyl-6-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-D-glucopyranose**see *Gentiobiose octaacetate*, OG28867 on page 117

## Tetraacetyl

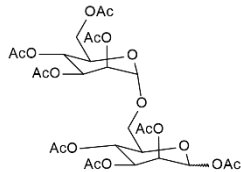
## 1,2,3,4-Tetra-O-acetyl-6-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-D-mannopyranose

- Acetyl-6-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-2,3,4-tri-O-acetyl-D-mannopyranose
- 6-O-(2,3,4,6-Tetra-O-acetyl-a-D-mannopyranosyl)-D-mannopyranose tetraacetate

[72691-29-3][123809-60-9] C<sub>28</sub>H<sub>38</sub>O<sub>19</sub> 678.59

OT04463

2mg	\$78.80
5mg	\$115.50
10mg	\$199.50

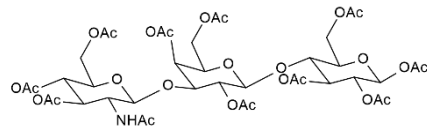


## 1,2,3,6-Tetra-O-acetyl-4-O-[2,4,6-tri-O-acetyl-3-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)-b-D-galactopyranosyl]-b-D-glucopyranose

C<sub>40</sub>H<sub>55</sub>NO<sub>26</sub> 965.86

OT10977

1mg	\$315.00
2mg	\$577.50
5mg	\$1312.50

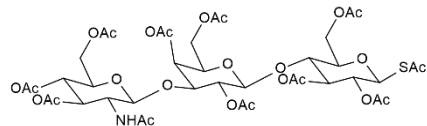


## 1,2,3,6-Tetra-O-acetyl-4-O-[2,4,6-tri-O-acetyl-3-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)-b-D-galactopyranosyl]-b-D-thioglucopyranose

C<sub>40</sub>H<sub>55</sub>NO<sub>25</sub>S 981.92

OT10976

1mg	\$315.00
2mg	\$577.50
5mg	\$1312.50

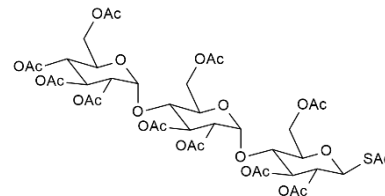


## 1,2,3,6-Tetra-O-acetyl-4-O-(2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-a-D-glucopyranosyl)-a-D-glucopyranosyl)-b-D-thioglucopyranose

C<sub>40</sub>H<sub>54</sub>O<sub>26</sub>S 982.91

OT10966

5mg	\$94.50
10mg	\$178.50
25mg	\$394.00

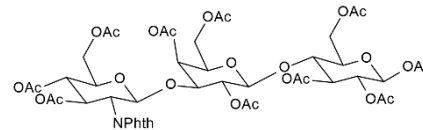


## 1,2,3,6-Tetra-O-acetyl-4-O-[2,4,6-tri-O-acetyl-3-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-b-D-galactopyranosyl]-b-D-glucopyranose

C<sub>46</sub>H<sub>55</sub>NO<sub>27</sub> 1053.92

OT10981

1mg	\$157.50
2mg	\$262.50
5mg	\$525.00

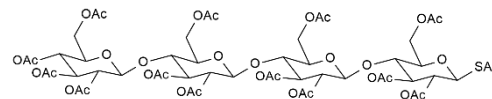


## 1,2,3,6-Tetra-O-acetyl-4-O-[2,3,6-tri-O-acetyl-4-O-[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl b-D-glucopyranosyl)-b-D-glucopyranosyl]-b-D-glucopyranosyl]-b-D-thioglucopyranose

C<sub>52</sub>H<sub>70</sub>O<sub>34</sub>S 1271.16

OT10968

1mg	\$195.00
2mg	\$350.00
5mg	\$750.00

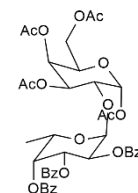


## 1,3,4,6-Tetra-O-acetyl-2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)-a-D-galactopyranose

[141990-06-9] C<sub>41</sub>H<sub>42</sub>O<sub>17</sub> 806.76

OT04868

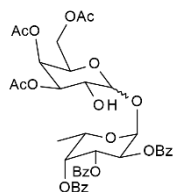
2mg	\$89.30
5mg	\$157.50
10mg	\$262.50



**2,3,4,6-Tetra-O-acetyl-1-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)-D-galactopyranoside**C<sub>41</sub>H<sub>42</sub>O<sub>17</sub> 806.76

OT04888

2mg	\$89.30
5mg	\$157.50
10mg	\$262.50

**3-O-(2,3,4,6-Tetra-O-benzyl-a-D-glucopyranosyl)-1,2,4,6-tetra-O-acetyl-b-D-glucopyranose**[140420-82-2] C<sub>48</sub>H<sub>54</sub>O<sub>15</sub> 870.93

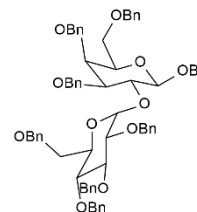
OT45805

250mg	\$950.00
500mg	\$1850.00
1g	\$3500.00

**2-O-(2,3,4,6-Tetra-O-benzyl-a-D-glucopyranosyl)-1,3,4,6-tetra-O-benzyl-b-D-galactopyranoside**C<sub>68</sub>H<sub>70</sub>O<sub>11</sub> 1063.28

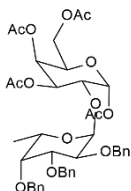
OT10385

2mg	\$105.00
5mg	\$183.80
10mg	\$262.50

**1,3,4,6-Tetra-O-acetyl-2-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-a-D-galactopyranose**[56889-55-5] C<sub>41</sub>H<sub>48</sub>O<sub>14</sub> 764.81

OT16491

10mg	\$105.00
25mg	\$199.50
50mg	\$367.50

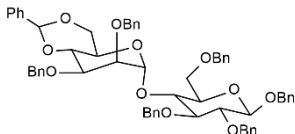
**2,3,4,6-Tetra-O-benzoyl-a-D-glucopyranosyl-(1-2)-3,4,6-tri-O-benzoyl-b-D-fructopyranoside**

see 2,3,4,6,3',4',6'-Hepta-O-benzoylsucrose, OH76250 on page 147

**1,2,3,6-Tetra-O-benzyl-4-O-(2,3-di-O-benzyl-4,6-O-benzylidene-a-D-mannopyranosyl)-b-D-glucopyranoside**C<sub>61</sub>H<sub>62</sub>O<sub>11</sub> 971.14

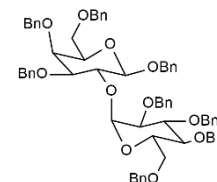
OT06511

5mg	\$89.30
10mg	\$157.50
25mg	\$262.50

**1,3,4,6-Tetra-O-benzyl-2-O-(2,3,4,6-tetra-O-benzyl-a-D-glucopyranosyl)-b-D-galactopyranoside**[64694-20-8] C<sub>68</sub>H<sub>70</sub>O<sub>11</sub> 1063.28

OT04642

5mg	\$99.80
10mg	\$157.50
25mg	\$262.50

**Tetradecasaccharide dp14**

4519.16

OT58535

2mg	\$60.00
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**Tetragalacto****Tetragalactose glycodendrimer**

OT13126

Price On Application

**Tetragalacturonic acid**[24008-75-1] C<sub>24</sub>H<sub>34</sub>O<sub>25</sub> 722.51

OT36503

2mg	\$120.00
5mg	\$230.00
10mg	\$430.00

**Tetra-guluronic acid sodium salt**C<sub>24</sub>H<sub>30</sub>O<sub>25</sub>Na<sub>4</sub> 810.44

OT61662

1mg	\$65.00
2mg	\$100.00
5mg	\$155.00

**Tetra-mannuronic acid sodium salt**C<sub>24</sub>H<sub>30</sub>O<sub>25</sub>Na<sub>4</sub> 810.44

OT61658

10mg	\$225.00
25mg	\$450.00
50mg	\$675.00

**α-Tetrasaccharide-APE-KLH**

OT06038

Price On Application

**Tetrasaccharide dp4**

1291.19

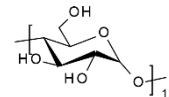
OT58536

1mg	\$258.02
2mg	\$412.84

**Tetrasialoganglioside 1b**see *GQ 1b-Ganglioside*, *OG16190* on page 139**1,3,4,6-Tetra-O-sulfo-b-D-fructofuranosyl a-D-glucopyranoside 2,3,4-tris(hydrogen sulfate) heptapotassium salt**see *Sucrose heptasulfate potassium salt*, *OS06653* on page 263**1,3,4,6-Tetra-O-sulfo-b-D-fructofuranosyl-2,3,4,6-tetrakis(hydrogen sulfate)-a-D-glucopyranoside sodium salt**see *Sucrose octasulfate sodium salt*, *OS07386* on page 264**TFILNO(1-2,1-2,1-3)**see *Trifucosyl(1-2,1-2,1-3)-iso-lacto-N-octaose*, *OT12187* on page 279**theta-Cyclodextrins**

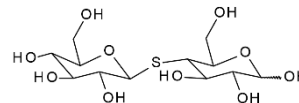
OC74849

Price On Application

**Thiocellobiose**[80951-92-4] C<sub>12</sub>H<sub>22</sub>O<sub>10</sub>S 358.36

OT04930

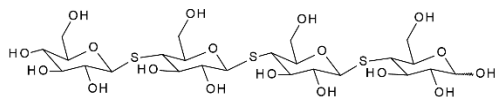
5mg	\$100.00
10mg	\$170.00
25mg	\$375.00

Refs: *J. Bacteriol.* 1982, 149, 47-53; Hamacher K, *Carbohydr. Res.* 1984

**Thiocellotetraose**C<sub>24</sub>H<sub>42</sub>O<sub>18</sub>S<sub>3</sub> 714.78

OT29272

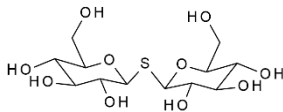
Price On Application

**Thiodi-N-acetylglucoside**see *b-D-(2-Acetamido-2-deoxy-D-glucopyranosyl)-2-acetamido-2-deoxy-b-D-thioglucopyranoside*, OA10990 on page 15**Thiodigalactoside**see *(D-Galactopyranosyl)-b-D-thiogalactopyranoside*, OG05033 on page 106**Thiodiglucoside**

• D-Glucopyranosyl-b-D-thioglucopyranoside

[108392-13-8] C<sub>12</sub>H<sub>22</sub>O<sub>10</sub>S 358.36

OT05018

100mg  
250mg  
500mg\$158.00  
\$262.50  
\$420.00

Refs: Thompson J, Frieder Wm Lichtenthaler W, Peters S, Pikis A, J. Biol. Chem, 2002, 277, 37, p34310

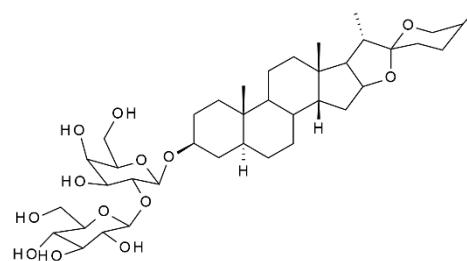
**5-Thio-D-lactose**

OT76496

Price On Application

**b-D-Thiolactose**see *4-O-(b-D-Galactopyranosyl)-b-D-thioglucopyranose*, OG10930 on page 106**b-D-Thiolactose octaacetate**see *4-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-1,2,3,6-tetra-O-acetyl-b-D-thioglucopyranose*, OT10928 on page 268**Thomsen-Freidenreich antigen**see *Galactosyl-Tn-antigen*, OG07525 on page 108**Thomsen-Fridenreich antigen**see *2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-D-galactopyranose*, OA01686 on page 13**L-threo-Lactosyl-b-ceramide**see *Lactosyl-b-1,1'-N-octanoyl-L-threo-sphingosine*, OL29192 on page 171**Timosaponin A-III**• Anemarsaponin A3  
• Filiferin B[41059-79-4] C<sub>39</sub>H<sub>64</sub>O<sub>13</sub> 740.92

OT10477

2mg  
5mg  
10mg\$50.00  
\$95.00  
\$160.00

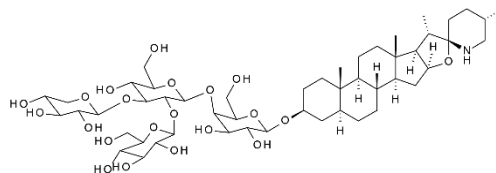
Refs: Chem. Pharm. Bull, 1963, 11, p1221

**6-O-(p-Toluenesulfonyl)-bCD**see *Mono-6-O-(p-toluenesulfonyl)-b-cyclodextrin*, OM11989 on page 225**Tomatine**

• Lycopersicin

[17406-45-0] C<sub>50</sub>H<sub>83</sub>NO<sub>21</sub> 1034.19

OT07656

25mg  
50mg  
100mg\$75.00  
\$115.00  
\$195.00

Refs: Tetrahedron, 1965, 21, p645

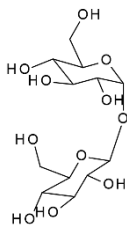


**Trehalose****a,b-Trehalose**

- Neotrehalose
- a-D-Glucopyranosyl b-D-glucopyranoside

[585-91-1] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

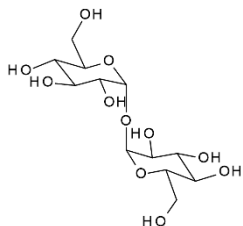
OT00157	25mg	\$75.00
	50mg	\$130.00
	100mg	\$210.00

**a,a-D-Trehalose anhydrous**

- a-D-Glucopyranosyl-a-D-glucopyranoside anhydrous

[99-20-7] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OT03932	25g	\$39.50
	50g	\$66.00
	100g	\$105.00

**Trehalose-6,6'-dibehenate**

- TDB
- 6,6'-Dibehenoyl-a,a'-trehalose

[66758-35-8] C<sub>56</sub>H<sub>106</sub>O<sub>13</sub> 987.43

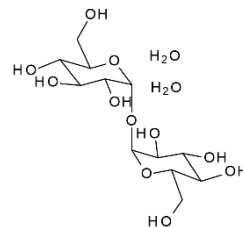
OT46136	1mg	\$95.00
	2mg	\$170.00
	5mg	\$350.00

**a,a-D-Trehalose dihydrate**

- a-D-Glucopyranosyl-a-D-glucopyranoside dihydrate

[6138-23-4] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·2H<sub>2</sub>O 378.33

OT05313	500g	\$50.00
	1kg	\$75.00
	2kg	\$130.00



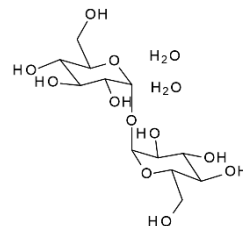
Refs: Stewart LC, Richtmyer NK, Hudson CS, J. Am. Chem. Soc. 1950, p2059

**a,a-D-Trehalose dihydrate - EP**[6138-23-4] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·2H<sub>2</sub>O 378.33

OT72471	500g	\$475.00
	1Kg	\$850.00
	2Kg	\$1100.00

**a,a-D-Trehalose dihydrate endotoxin free**[6138-23-4] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·2H<sub>2</sub>O 378.33

OT06976	50g	\$80.00
	100g	\$135.00
	250g	\$225.00

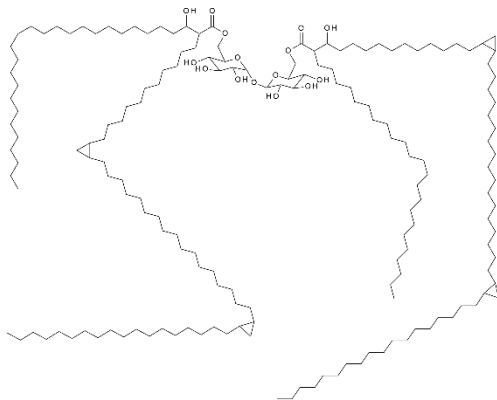


**Trehalose 6,6'-dimycolate**

[61512-20-7] 2600 - 3000

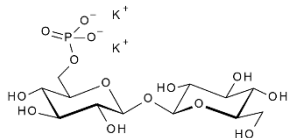
OT10667

1mg	\$165.00
2mg	\$300.00
5mg	\$575.00

**Trehalose-6-phosphate dipotassium salt**[136632-28-5] C<sub>12</sub>H<sub>21</sub>O<sub>14</sub>PK<sub>2</sub> 498.46

OT11513

5mg	\$95.00
10 mg	\$170.00
25mg	\$365.00

**Trehalose-6-phosphate disodium salt**C<sub>12</sub>H<sub>21</sub>O<sub>14</sub>PNa<sub>2</sub> 466.24

OT63296

10mg	\$520.00
25mg	\$1125.00
50mg	\$2000.00

**Trehalose-6-vanadate**

OT75072

Price On Application

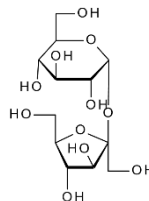
**Trehalulose**

• 1-O-α-D-Glucopyranosyl-D-fructose

[51411-23-5] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

OT09774

Price On Application

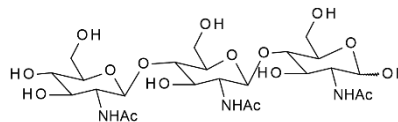
**N,N',N''-Triacetylchitotriose**

- 2-Acetamido-4-O-[2-acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-b-D-glucopyranosyl]-2-deoxy-D-glucopyranose
- Chitotriose triacetate

[38864-21-0] C<sub>24</sub>H<sub>41</sub>N<sub>3</sub>O<sub>16</sub> 627.59

OT06497

5mg	\$65.00
10mg	\$100.00
25mg	\$180.00



Refs: Barker SA, et al, J. Chem. Soc. 1958, 2218; Beil. 18, V, 11, 187

**Tri-N-acetyl-chitotriose octaacetate**see *Chitotriose undecaacetate, OC01666 on page 63***2,3,6-Tri-O-acetyl-gamma-cyclodextrin**

• Octakis-(2,3,6-tri-O-acetyl)-γ-cyclodextrin,

C<sub>96</sub>H<sub>128</sub>O<sub>64</sub> 2306.01

OT44722

1g	\$110.00
2g	\$180.00
5g	\$275.00



## Triacetylcyc

Tri-O-acetyl- $\beta$ -cyclodextrin

- $\beta$ -Cyclodextrin heneicosacetate
- Heptakis-(2,3,6-tri-O-acetyl)- $\beta$ -CD

[23739-88-0] C<sub>84</sub>H<sub>112</sub>O<sub>56</sub> 2017.75

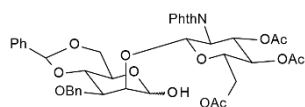
OT34433

10g	\$65.00
25g	\$137.50
50g	\$250.00

2-O-(3,4,6-Tri-O-acetyl-2-deoxy-2-N-phthalimido- $\beta$ -D-glucopyranosyl)-3-O-benzyl-4,6-benzylidene-D-mannopyranoseC<sub>40</sub>H<sub>41</sub>NO<sub>15</sub> 775.75

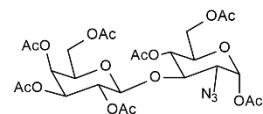
OT10403

2mg	\$94.50
5mg	\$157.50
10mg	\$262.50

1,3,6-Tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-galactopyranosyl)-2-azido-2-deoxy-a-D-glucopyranoseC<sub>26</sub>H<sub>35</sub>N<sub>3</sub>O<sub>17</sub> 661.57

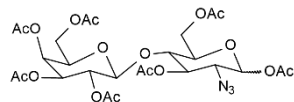
OT06894

1g	\$682.50
2g	\$1155.00
5g	\$2100.00

1,3,6-Tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-galactopyranosyl)-2-azido-2-deoxy-D-glucopyranoseC<sub>26</sub>H<sub>35</sub>N<sub>3</sub>O<sub>17</sub> 661.57

OT06645

250mg	\$315.00
500mg	\$580.00
1g	\$945.00

2,3,6-Tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-galactopyranosyl)- $\beta$ -D-glucopyranosyl azidesee 2,3,6,2',3',4',6'-Hepta-O-acetyl- $\beta$ -lactosyl azide, OH06632 on page 145

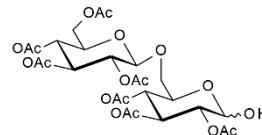
## 1,2,3-Tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-a-D-glucopyranosyl)-D-glucopyranose

see 2,3,6,2',3',4',6'-Hepta-O-acetyl-D-maltose, OH35403 on page 149

2,3,4-Tri-O-acetyl-6-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)-D-glucopyranose[56253-33-9] C<sub>26</sub>H<sub>36</sub>O<sub>18</sub> 636.55

OT16565

25mg	\$140.00
50mg	\$254.50
100mg	\$462.00



Refs: Araya, E, et al, Bioorg. Med. Chem. Lett, 15, 1493 (2005)

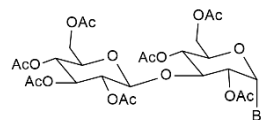
2,3,6-Tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)- $\beta$ -D-glucopyranosyl azidesee 2,3,6,2',3',4',6'-Hepta-O-acetyl- $\beta$ -D-cellobiosyl azide, OH04369 on page 1452,4,6-Tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)-a-D-glucopyranosyl bromide

- Acetobromolaminaribiose
- 1-Bromo-2,4,6-tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyl)-a-D-glucopyranose

[23202-66-6] C<sub>26</sub>H<sub>35</sub>BrO<sub>17</sub> 699.45

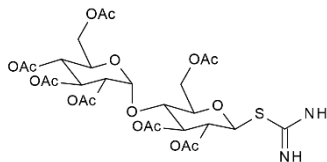
OT04669

50mg	\$650.00
100mg	\$975.00
250mg	\$1750.00

2-(2,3,6-Tri-O-acetyl-4-O-[(2,3,4,6-tetra-O-acetyl-a-D-glucopyranosyl)]- $\beta$ -D-glucopyranosyl) thiopseudoureaC<sub>27</sub>H<sub>38</sub>N<sub>2</sub>O<sub>17</sub>S 694.66

OT10963

25mg	\$105.00
50mg	\$189.00
100mg	\$336.00

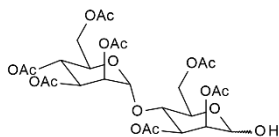




**2,3,6-Tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\alpha$ -D-mannopyranosyl)-D-mannopyranose**[123809-59-6] C<sub>26</sub>H<sub>36</sub>O<sub>18</sub> 636.55

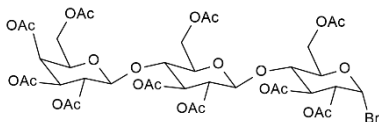
OT09647

1mg	\$94.50
2mg	\$157.50
5mg	\$262.50

**2,3,6-Tri-O-acetyl-4-O-(2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-galactopyranosyl)- $\beta$ -D-glucopyranosyl)- $\alpha$ -D-glucopyranosyl bromide**C<sub>38</sub>H<sub>51</sub>BrO<sub>25</sub> 987.7

OT11432

Price On Application

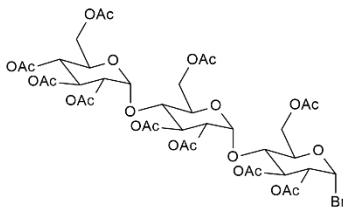
**2,3,6-Tri-O-acetyl-4-O-(2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\alpha$ -D-glucopyranosyl)- $\alpha$ -D-glucopyranosyl)- $\alpha$ -D-glucopyranosyl bromide**

• Acetobromomaltotriose

C<sub>38</sub>H<sub>51</sub>BrO<sub>25</sub> 987.7

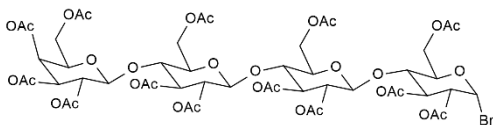
OT10965

25mg	\$79.00
50mg	\$147.00
100mg	\$263.00

**2,3,6-Tri-O-acetyl-4-O-[2,3,6-tri-O-acetyl-4-O-(2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-galactopyranosyl)- $\beta$ -D-glucopyranosyl)- $\beta$ -D-glucopyranosyl]- $\alpha$ -D-glucopyranosyl bromide**C<sub>50</sub>H<sub>67</sub>BrO<sub>33</sub> 1275.95

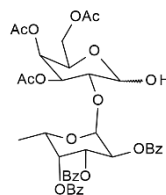
OT11433

Price On Application

**3,4,6-Tri-O-acetyl-2-O-(2,3,4-tri-O-benzoyl- $\alpha$ -L-fucopyranosyl)-D-galactopyranose**C<sub>39</sub>H<sub>40</sub>O<sub>16</sub> 764.73

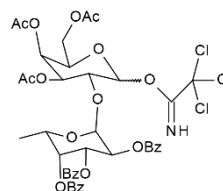
OT04886

2mg	\$89.30
5mg	\$157.50
10mg	\$262.50

**3,4,6-Tri-O-acetyl-2-O-(2,3,4-tri-O-benzoyl- $\alpha$ -L-fucopyranosyl)-D-galactopyranosyl trichloroacetimidate**C<sub>41</sub>H<sub>40</sub>Cl<sub>3</sub>NO<sub>16</sub> 909.11

OT04873

2mg	\$94.50
5mg	\$183.80
10mg	\$262.50

**2,2',2''-Triaminotriethylamine-bis(thiogalactopyranosyl acetamide)**C<sub>22</sub>H<sub>42</sub>N<sub>4</sub>O<sub>12</sub>S<sub>2</sub> 618.72

OT11028

5mg	\$60.00
10mg	\$100.00
25mg	\$200.00

**2,3,6-Tri-O-benzoyl- $\gamma$ -cyclodextrin**• Octakis-(2,3,6-tri-O-benzoyl)- $\gamma$ -cyclodextrinC<sub>216</sub>H<sub>176</sub>O<sub>64</sub> 3795.67

OT44723

Price On Application



## Tribenzoylcy

Tri-O-benzoyl- $\beta$ -cyclodextrin•  $\beta$ -Cyclodextrin heptakis(2,3,6-tri-O-benzoate)C<sub>182</sub>H<sub>154</sub>O<sub>56</sub> 3237.14

OT34943

500mg	\$135.00
1g	\$199.50
2g	\$367.50

2,3,6-Tri-O-benzyl- $\gamma$ -cyclodextrin• Octakis-(2,3,6-tri-O-benzyl)- $\gamma$ -cyclodextrinC<sub>216</sub>H<sub>224</sub>O<sub>40</sub> 3460.07

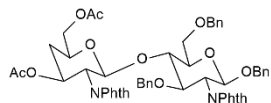
OT44721

Price On Application

1,3,6-Tri-O-benzyl-4-O-(3,6-di-O-acetyl-2,4-dideoxy-2-phthalimido- $\beta$ -D-glucopyranosyl)-2-deoxy-2-phthalimido- $\beta$ -D-glucopyranosideC<sub>63</sub>H<sub>50</sub>N<sub>2</sub>O<sub>14</sub> 938.97

OT07407

1mg	\$210.00
2mg	\$399.00
5mg	\$787.50



## 2'',3'',4''-Tri-O-benzylfucosyllactose

C<sub>39</sub>H<sub>50</sub>O<sub>15</sub> 758.81

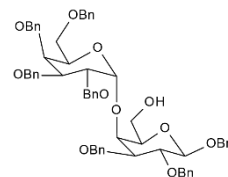
OT59545

2mg	\$100.00
5mg	\$200.00
10mg	\$380.00

1,2,3-Tri-O-benzyl-4-O-(2,3,4,6-tetra-O-benzyl-a-D-galactopyranosyl)- $\beta$ -D-galactopyranosideC<sub>61</sub>H<sub>64</sub>O<sub>11</sub> 973.15

OT06489

2mg	\$89.30
5mg	\$168.00
10mg	\$315.00

Refs: Race RR, et al. *Food Groups in Man*, 6th Edn, Blackwell, Oxford 1975; Kallenius G, et al, *FEMS Lett.* 7, 297(1983), B313250

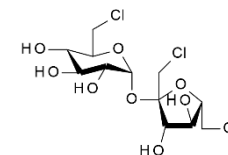
## 1',6,6'-Trichloro sucrose

- 1,6-Dichloro-1,6-dideoxy- $\beta$ -D-fructofuranosyl-6-chloro-6-deoxy-a-D-glucopyranoside
- 6-Chloro-6-deoxy-1',6,6'-trichloro-1',6,6'-trideoxysucrose
- 1',6,6'-Trichlorosucrose

[40631-75-2] C<sub>12</sub>H<sub>18</sub>Cl<sub>3</sub>O<sub>8</sub> 397.63

OT16494

5mg	\$195.00
10mg	\$350.00
25mg	\$780.00

Refs: Lord, G, et al, *Food Chem. Toxicol.* 28, 449 (1990); Newberne, P, et al, *Toxicol. Pathology*, 16, 449 (1990)

## 1',6,6'-Trichlorosucrose

see 1',6,6'-Trichloro sucrose, OT16494 on page 278

## Tricrocin

see *Crocine II*, OC09382 on page 662,3,6-Triethyl- $\gamma$ -cyclodextrin• Octakis-(2,3,6-tri-O-ethyl)- $\gamma$ -cyclodextrinC<sub>95</sub>H<sub>176</sub>O<sub>40</sub> 1958.39

OT44719

1g	\$1050.00
2g	\$1650.00
5g	\$3725.00



**Triethyl-a-cyclodextrin**

• Hexakis-(2,3,6-tri-O-ethyl)-a-cyclodextrin

[145454-97-3] C<sub>72</sub>H<sub>132</sub>O<sub>30</sub> 1477.8

OT44663

Price On Application

**Trifluoroacetamidopropyl b-D-lactose**

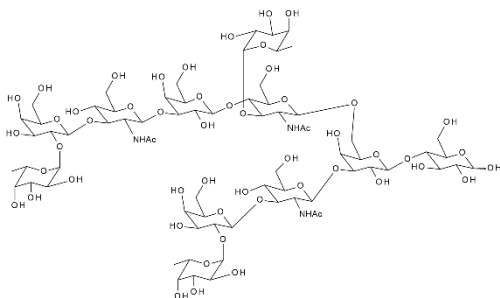
OT59629

1g \$275.00  
2g \$500.00  
5g \$1125.00**Trifucosyl(1-2,1-2,1-3)-iso-lacto-N-octaose**

• TFiLNO(1-2,1-2,1-3)

[141342-93-0] C<sub>72</sub>H<sub>121</sub>N<sub>3</sub>O<sub>53</sub> 1876.72

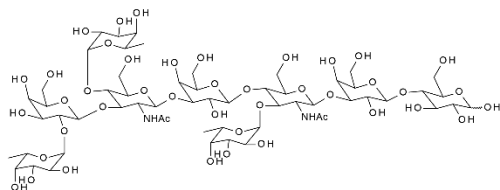
OT12187

20ug \$252.00  
40ug \$420.00  
100ug \$893.00**Trifucosyl-p-lacto-N-hexaose**

• Fuc-a-1,2-Gal-b-1,3(Fuc-a-1,4)GlcNAc-b-1,3-Gal-b-1,4(Fuc-a-1,3)GlcNAc-b-1,3-Gal-b-1,4-Glc

[120864-60-0] C<sub>58</sub>H<sub>98</sub>N<sub>2</sub>O<sub>43</sub> 1511.39

OT06831

0.1mg \$346.50  
0.25mg \$721.90**Tri-fucosyl-ley-heptasaccharide-APE-HSA**

OT03895

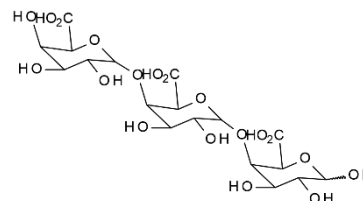
Price On Application

**Trigalacturonic acid**

• Gal-a-1,4-Gal-a-1,4-GalA

[6037-45-2] C<sub>18</sub>H<sub>26</sub>O<sub>19</sub> 546.39

OT02431

5mg \$57.80  
10mg \$94.50  
25mg \$189.00

Refs: Demain AL, Phaff HJ, J. Biol. Chem. 1954, p381

**Tri-guluronic acid sodium salt**C<sub>18</sub>H<sub>23</sub>O<sub>19</sub>Na<sub>3</sub> 612.33

OT61661

10mg \$225.00  
25mg \$450.00  
50mg \$675.00**(3b,6a,12b)-3,12,20-Trihydroxydammar-24-en-6-yl 2-O-(6-deoxy-a-L-mannopyranosyl)-b-D-glucopyranoside**see *Ginsenoside Rg2*, OG09290 on page 120**(3b,6a,12b)-3,12,20-Trihydroxydammar-24-en-6-yl-2-O-(b-D-glucopyranosyl)-b-D-glucopyranoside**see *Ginsenoside Rf*, OG09284 on page 120**Trihydroxyethylrutin**see *Troxeutin*, OT15980 on page 281**4,5,7-Trihydroxyflavanone 7-rhamnoglucoside**see *Naringin hydrate*, ON04250 on page 227

## Trihydroxyfl

## 4,5,7Trihydroxyflavanone 7-rhamnoglucoside

see *Naringin dihydrate*, ON106318 on page 227

## 3',5,7-Trihydroxy-4'-methoxyflavanone-7-O-(6-O-a-L-rhamnopyranosyl)-b-D-glucopyranoside

see *Hesperidin*, OH08129 on page 149

## 3',5,7-Trihydroxy-4'-methoxyflavone 7-rutinoside

see *Diosmin* - 90%, OD11673 on page 87

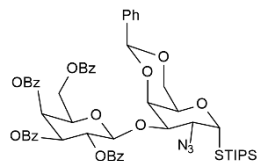
## (3b,4a,16a)-16,23,28-Trihydroxyoleana-11,13(18)-dien-3-yl6-deoxy-3-O-b-D-glucopyranosyl-b-D-fucoside

see *Saikosaponin B2*, OS09507 on page 250

## Triisopropylsilyl 2-azido-3-O-(2,3,4,6-tetra-O-benzoyl-b-D-galactopyranosyl)-4,6-O-benzylidene-2-deoxy-a-D-thiogalactopyranoside

C<sub>66</sub>H<sub>61</sub>N<sub>3</sub>O<sub>13</sub>SSi 1044.25

OT10962	1mg	\$60.00
	2mg	\$100.00
	5mg	\$225.00



## Tri-mannuronic acid sodium salt

C<sub>18</sub>H<sub>23</sub>O<sub>19</sub>Na<sub>3</sub> 612.33

OT61656	10mg	\$225.00
	25mg	\$450.00
	50mg	\$675.00



## 2,3,6-Trimethyl-gamma-cyclodextrin

• Heptakis-(2,3,6-tri-O-methyl)-γ-cyclodextrin

C<sub>70</sub>H<sub>124</sub>O<sub>42</sub> 1637.71

OT44718	1g	\$520.00
	2g	\$990.00
	5g	\$1825.00

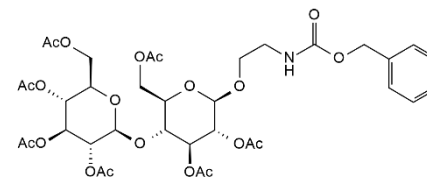


## [2-[[[2,3,6-Tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranosyl]oxy]ethyl]-carbamic acid phenylmethyl ester

[64448-40-4]

Price On Application

OC44185



## 2,3,6-Trioctyl-gamma-cyclodextrin

• Octakis-(2,3,6-tri-O-n-octyl)-γ-cyclodextrin

C<sub>240</sub>H<sub>464</sub>O<sub>40</sub> 3990.23

Price On Application

OT44720



## b-Trisaccharide-APE-Biotin-BSA

Price On Application

OT05690



## a-Trisaccharide-APE biotin-HSA

Price On Application

OT03907



## a-Trisaccharide-APE-HSA

Price On Application

OT03892



**a-Trisaccharide-GEL**

OT05442

Price On Application

**b-Trisaccharide-GEL**

OT03913

Price On Application

**b-Trisaccharide-APE-HSA**

OT03737

Price On Application

**Trisodium salt, mw: 563.35**see *Heparin disaccharide I-H trisodium salt, OH28914* on page 144**Trisodium salt, mw: 563.35**see *Heparin disaccharide III-S trisodium salt, OH28908* on page 143**6,1',6'-Tri-O-tertbutyldiphenylsilyl-sucrose**

[81086-97-7]

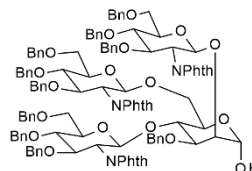
OT46844

5g	\$850.00
10g	\$1250.00
25g	\$1875.00

**2,4,6-Tri-O-(3,4,6-tri-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-a-D-mannopyranose**C<sub>118</sub>H<sub>111</sub>N<sub>3</sub>O<sub>24</sub> 1955.15

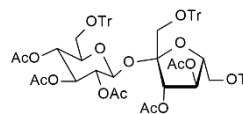
OT10951

5mg	\$94.50
10mg	\$157.50
25mg	\$315.00

**1,6,6'-Tri-O-tritylsucrose pentaacetate**C<sub>79</sub>H<sub>74</sub>O<sub>16</sub> 1279.42

OT07356

25mg	\$89.50
50mg	\$131.50
100mg	\$231.00

**Troxerutin**

- 2-[3,4-bis(2-Hydroxyethoxy)phenyl]-5-hydroxy-7-(2-hydroxyethoxy)-4-oxo-4H-chromen-3-yl 6-O-(6-deoxy-b-D-mannopyranosyl)-b-D-glucopyranoside
- Trihydroxyethylrutin

[7085-55-4][56764-99-9] C<sub>33</sub>H<sub>42</sub>O<sub>19</sub> 742.68

OT15980

25g	\$75.00
50g	\$125.00
100g	\$200.00

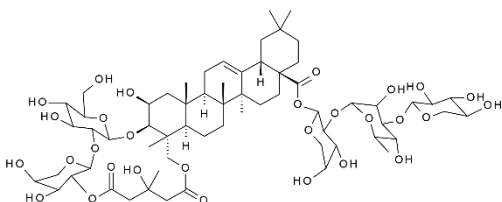


**Tubeimoside****Tubeimoside**

## • Lobatoside H

[102040-03-9] C<sub>63</sub>H<sub>96</sub>O<sub>29</sub> 1319.48

OT08921	25mg	\$60.00
	50mg	\$100.00
	100mg	\$140.00



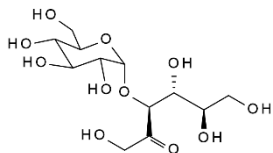
Refs: Chem. Pharm. Bull., 1986, 34, p3974

**D-Turanose**

## • 3-O-(a-D-Glucopyranosyl)-D-fructose

[547-25-1] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 342.3

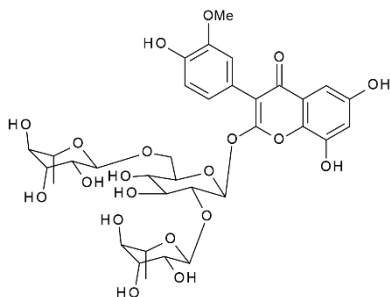
OT06692	2g	\$60.00
	5g	\$105.00
	10g	\$195.00



Refs: Tewari YB, Goldberg RN, Biophys. Chem. 1991, 40, p59; Beil. 1777, V, 213

**Typhaneoside**[104472-68-6] C<sub>34</sub>H<sub>42</sub>O<sub>20</sub> 770.69

OT08036	10mg	\$75.00
	25mg	\$115.00
	50mg	\$225.00



Refs: Acta. Pharmaceutica Sinica, 1986, 21, p441

**b-D-[UL-13C6]Fructofuranosyl a-D-[UL-13C6] glucopyranoside**

see [UL-13C12]Sucrose, OS29120 on page 282

**[UL-13C6]Lactose monohydrate**

OL16272	100mg	\$1575.00
	250mg	\$2362.50
	500mg	\$3675.00

**[UL-2H7]Lactose monohydrate**

OL16276	Price On Application
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**[UL-13C6]Glc(a1-4)[UL-13C6]Glc(a1-4)[UL-13C6]Glc hydrate**

see [UL-13C18]Maltotriose hydrate, OM45239 on page 282

**[UL-13C18]Maltotriose hydrate**

## • [UL-13C6]Glc(a1-4)[UL-13C6]Glc(a1-4)[UL-13C6]Glc hydrate

<sup>13</sup>C<sub>18</sub>H<sub>32</sub>O<sub>16</sub>·xH<sub>2</sub>O 522.30 (anhydrous basis)

OM45239	10mg	\$550.00
	25mg	\$1125.00

**[UL-13C12]Sucrose**

## • b-D-[UL-13C6]Fructofuranosyl a-D-[UL-13C6] glucopyranoside

<sup>13</sup>C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 354.21

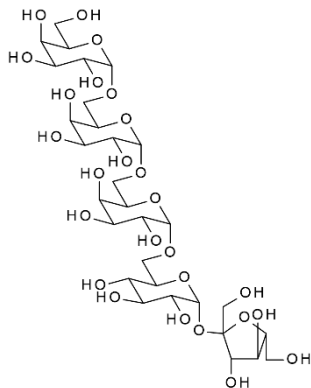
OS29120	Price On Application
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**Verbascose**[546-62-3] C<sub>30</sub>H<sub>52</sub>O<sub>26</sub> 828.72

OV13781

5mg	\$68.00
10mg	\$100.00
25mg	\$200.00

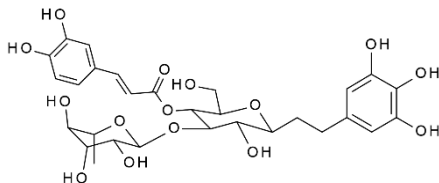
**Verbascoside**

• Acteoside

[61276-17-3] C<sub>29</sub>H<sub>36</sub>O<sub>15</sub> 624.59

OV08034

10mg	\$40.00
25mg	\$75.00
50mg	\$120.00



Refs: Phytochemistry, 1975, 14, p2029

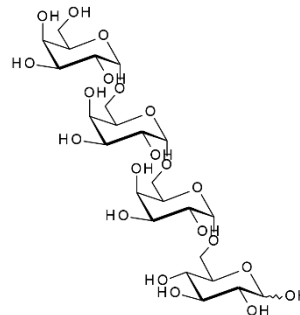
**Verbascotetraose**

- a-D-Galactopyranosyl-(1-6)-a-D-galactopyranosyl-(1-6)-a-D-galactopyranosyl-(1-6)-D-glucose
- D-Glucose, a-D-galactopyranosyl-(1-6)-a-D-galactopyranosyl-(1-6)-a-D-galactopyranosyl-(1-6)-

[1111-08-6] C<sub>24</sub>H<sub>42</sub>O<sub>21</sub> 666.58

OV10601

Price On Application



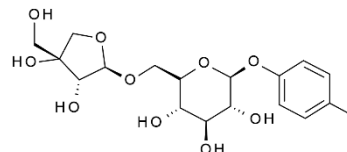
Refs: Courtois, J. E. et al, Bull. Soc. Chim. Biol., 1955, 37, 1009; Haq, S. et al, Can. J. Biochem, 1962, 40, 989

**p-Vinylphenyl O-[b-D-apiofuranosyl-(1-6)]-b-D-glucopyranoside**

[112047-91-3]

OV44158

Price On Application

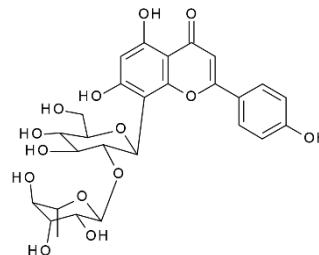
**Vitexin-2-O-rhamnoside**

- 2-O-Rhamnosylvitexin
- 8-[2-O-(6-Deoxy-a-L-mannopyranosyl)-b-D-glucopyranosyl]-5,7-dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one

[64820-99-1] C<sub>27</sub>H<sub>30</sub>O<sub>14</sub> 578.52

OV08033

50mg	\$150.00
100mg	\$200.00
250mg	\$375.00



Refs: Phytochemistry, 1977, 16, p2041



**Vitexinrhamm****Vitexin-4'-rhamnoside**

[32426-34-9]

OV36518

25mg	\$3000.00
50mg	\$5500.00
100mg	\$7800.00

**XA3XX**

see 3'-a-L-Arabinofuranosyl-xyloetraose, OA61667 on page 34

**1,4-b-D-Xylobiitol**[20237-70-1] C<sub>10</sub>H<sub>20</sub>O<sub>9</sub> 284.26

OX61668

5mg	\$55.00
10mg	\$85.00
25mg	\$150.00

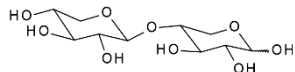
**1,4-D-Xylobiose**

• 4-O-(b-D-Xylopyranosyl)-D-xylopyranose

[6860-47-5] C<sub>10</sub>H<sub>18</sub>O<sub>9</sub> 282.25

OX05190

10mg	\$50.00
25mg	\$95.00
50mg	\$150.00



Refs: Usui K, Ibata K, Suzuki T, Kawai K, Biosci Biotechnol Biochem, 1999 63, p1346

**Xyloglucan heptasaccharide**

[121591-98-8]

OX45926

50mg	\$225.00
100mg	\$400.00
250mg	\$675.00

**Xyloglucan nonasaccharide**

[129865-06-1]

OX45928

50mg	\$225.00
100mg	\$350.00
250mg	\$800.00

**Xyloglucan octasaccharide**

OX45927

50mg	\$200.00
100mg	\$350.00
250mg	\$800.00

**Xyloglucan oligosaccharides - from tamarind seed**

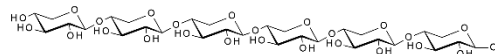
OX61697

100mg	\$150.00
200mg	\$240.00
500mg	\$390.00

**1,4-b-D-Xylohexaose**[49694-21-5] C<sub>30</sub>H<sub>50</sub>O<sub>25</sub> 810.7

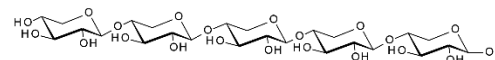
OX31988

1mg	\$100.00
2mg	\$156.00
5mg	\$315.00

**1,4-b-D-Xylopentaose**[49694-20-4] C<sub>25</sub>H<sub>42</sub>O<sub>21</sub> 678.59

OX31987

1mg	\$55.00
2mg	\$80.00
5mg	\$155.00





**6-O-( $\alpha$ -D-Xylopyranosyl)-D-glucose**see *Isoprimeverose*, OI44482 on page 160**4-O-( $\beta$ -D-Xylopyranosyl)-D-xylopyranose**see *1,4-D-Xylobiose*, OX05190 on page 284 **$\beta$ -D-Xylopyranosyl-(1-4)- $\beta$ -D-xylopyranosyl-(1-4)-D-xylose**see *1,4- $\beta$ -D-Xylotriose*, OX31985 on page 285 **$\beta$ -D-xylopyranosyl-(1 $\rightarrow$ 2)-D-glucose**see *Sambubiose*, OS34984 on page 250**6-( $\beta$ -D-Xylosido)-D-glucose**see *Primeverose*, OP153479 on page 244**Xylosyl-cellobiose**

476.43

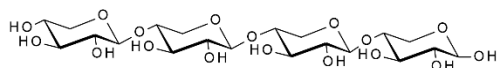
OX44483

10mg	\$95.00
25mg	\$175.00
50mg	\$295.00

**1,4- $\beta$ -D-Xylotetraose**[22416-58-6] C<sub>20</sub>H<sub>34</sub>O<sub>17</sub> 546.47

OX31986

5mg	\$90.00
10mg	\$155.00
25mg	\$265.00

**1,4- $\beta$ -D-Xylotetraose decasulfate sodium salt**

OX106427

Price On Application

**1,4- $\beta$ -D-Xylotriitol**[116269-52-4] C<sub>15</sub>H<sub>28</sub>O<sub>13</sub> 416.38

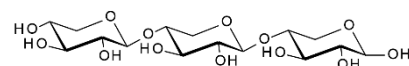
OX61669

5mg	\$55.00
10mg	\$85.00
25mg	\$150.00

**1,4- $\beta$ -D-Xylotriose**•  $\beta$ -D-Xylopyranosyl-(1-4)- $\beta$ -D-xylopyranosyl-(1-4)-D-xylose[47592-59-6] C<sub>15</sub>H<sub>26</sub>O<sub>13</sub> 414.36

OX31985

5mg	\$60.00
10mg	\$110.00
25mg	\$195.00

**trans-Zeatin-9-glucoside-o-glucoside**• 6-((E)-4- $\beta$ -D-glucopyranosyloxy-3-methylbut-2-enylamino)-9- $\beta$ -D-glucopyranosylpurine[115921-05-6] C<sub>22</sub>H<sub>33</sub>N<sub>5</sub>O<sub>11</sub> 543.52

OZ30320

Price On Application

**zeta-Cyclodextrin**

• Cyclomaltoundecaose

[156510-97-3] C<sub>66</sub>H<sub>110</sub>O<sub>55</sub> 1783.55

OC74847

Price On Application



**Ziziphin****Ziziphin**[73667-51-3]  $C_{51}H_{80}O_{18}$  981.17

Price On Application

OZ29341

**Zymosan A**

[58856-93-2]

OZ139261

1g	\$125.00
2g	\$190.00
5g	\$300.00





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(C <sub>5</sub> H <sub>6</sub> Na <sub>2</sub> O <sub>10</sub> S <sub>2</sub> ) <sub>n</sub>	Pentosan polysulfate sodium	241
(C <sub>6</sub> H <sub>7</sub> O <sub>2</sub> (OH) <sub>2</sub> (OCH <sub>2</sub> COONa)) <sub>n</sub>	Carboxymethyl cellulose sodium - Viscosity 1400 - 2000cps	55
(C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> ) <sub>n</sub>	Dextran 60 - MW: 54,000 to 66,000	75
(C <sub>6</sub> H <sub>11</sub> NO <sub>4</sub> ) <sub>n</sub>	Chitosan oligomer (Dp 3-7) - Molecular weight 1000	62
<sup>13</sup> C <sub>6</sub> H <sub>10</sub> Na <sub>4</sub> O <sub>12</sub> P <sub>2</sub> ·xH <sub>2</sub> O	D-Fructose-13C6-1,6-diphosphate sodium salt	97
(C <sub>10</sub> H <sub>13</sub> N <sub>4</sub> O <sub>9</sub> P) <sub>x</sub> (C <sub>9</sub> H <sub>14</sub> N <sub>3</sub> O <sub>8</sub> P) <sub>x</sub>	Polyinosinic acid, homopolymer, complex with polycytidylic acid, homopolymer (1:1)	243
C <sub>10</sub> H <sub>18</sub> O <sub>9</sub>	1,4-D-Xylobiose	284
	1,5-a-L-Arabinobiose	34
C <sub>10</sub> H <sub>19</sub> NO <sub>6</sub>	1-Deoxy-1-morpholino-D-fructose	74
C <sub>10</sub> H <sub>19</sub> NO <sub>8</sub>	Di-b-D-xylopyranosylamine	90
C <sub>10</sub> H <sub>20</sub> O <sub>9</sub>	1,4-b-D-Xylobitol	284
C <sub>11</sub> H <sub>20</sub> O <sub>9</sub>	4-O-(b-D-Ribofuranosyl)-L-rhamnopyranose	248
	Methyl b1-4-D-xylobioside	219
C <sub>11</sub> H <sub>20</sub> O <sub>10</sub>	Sambubiose	250
	Primeverose	244
	Isoprimeverose	160
	2-O-(b-D-Galactopyranosyl)-D-xylopyranose	106
	3-O-(b-D-Galactopyranosyl)-D-arabinose	102
C <sub>12</sub> H <sub>14</sub> K <sub>6</sub> O <sub>35</sub> S <sub>8</sub>	Sucrose octasulfate potassium salt	263
C <sub>12</sub> H <sub>14</sub> Na <sub>8</sub> O <sub>35</sub> S <sub>8</sub>	Sucrose octasulfate sodium salt	264
C <sub>12</sub> H <sub>15</sub> O <sub>17</sub> S <sub>2</sub> ·Na <sub>3</sub>	2,5-Anhydro-4-O-(a-L-idopyranosyl)uronic acid 2- sulfate)-D-mannofuranose 6-sulfate trisodium salt	32
C <sub>12</sub> H <sub>15</sub> NO <sub>19</sub> S <sub>3</sub> ·Na <sub>4</sub>	Heparin derived disaccharide sodium salt	141
C <sub>12</sub> H <sub>15</sub> NO <sub>19</sub> S <sub>3</sub> ·4Na	Heparin disaccharide I-S, tetrasodium salt	143
C <sub>12</sub> H <sub>15</sub> K <sub>7</sub> O <sub>32</sub> S <sub>7</sub>	Sucrose heptasulfate potassium salt	263
C <sub>12</sub> H <sub>16</sub> O <sub>8</sub>	Galactosyl isomaltol	107
C <sub>12</sub> H <sub>16</sub> O <sub>13</sub> Na <sub>2</sub>	Di-mannuronic acid sodium salt	84
	Di-guluronic acid sodium salt	84
C <sub>12</sub> H <sub>16</sub> Na <sub>6</sub> O <sub>16</sub> S <sub>2</sub>	Heparin disaccharide II-S trisodium salt	143
C <sub>12</sub> H <sub>16</sub> N <sub>10</sub> O <sub>6</sub>	1,3-Diazido-1,2,3-trideoxy-4-O-(2,6-diazido-2,6- dideoxy-a-D-glucopyranosyl)-D-myo-inositol	79
(C <sub>12</sub> H <sub>18</sub> O <sub>9</sub> ) <sub>n</sub>	Agar	27
C <sub>12</sub> H <sub>18</sub> O <sub>13</sub>	Digalacturonic acid	83
C <sub>12</sub> H <sub>18</sub> NaO <sub>13</sub> S	Heparin disaccharide III-H disodium salt	143
	Heparin disaccharide II-H disodium salt	143
C <sub>12</sub> H <sub>19</sub> Cl <sub>3</sub> O <sub>8</sub>	1',6,6'-Trichloro sucrose	278
	Sucralose	262
C <sub>12</sub> H <sub>19</sub> NO <sub>10</sub>	Heparin disaccharide IV-H	144
C <sub>12</sub> H <sub>19</sub> NO <sub>13</sub> S	Heparin disaccharide IV-S disodium salt	144
C <sub>12</sub> H <sub>19</sub> NO <sub>16</sub> S <sub>2</sub>	Heparin disaccharide I-H trisodium salt	144
	Heparin disaccharide III-S trisodium salt	143
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	D-Cellobial	57
C <sub>12</sub> H <sub>20</sub> O <sub>10</sub>	Neocarrabiose	228
	Neogagarbiose	228
	Maltosan	184
	1,6-Anhydro-4-O-b-D-galactopyranosyl-b-D- glucopyranose	32
	1,6-Anhydro-b-D-cellobiose	32
C <sub>12</sub> H <sub>20</sub> O <sub>11</sub> D <sub>2</sub>	6-O-(a-D-[6,6'-2H2]Glucopyranosyl)-D- glucopyranose	128
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C <sub>12</sub> H <sub>21</sub> FO <sub>10</sub>	Lactosyl fluoride	171
C <sub>12</sub> H <sub>21</sub> O <sub>10</sub> F	6-Deoxy-6-fluoro-D-lactose	72
	2-Deoxy-2-fluoro-D-lactose	72
C <sub>12</sub> H <sub>21</sub> FO <sub>10</sub>	Cellobiosyl fluoride	58
C <sub>12</sub> H <sub>21</sub> N <sub>3</sub> O <sub>10</sub>	1-Azido-1-deoxy-b-D-lactopyranoside	37
C <sub>12</sub> H <sub>21</sub> NO <sub>11</sub>	2-Amino-2-deoxy-3-O-(b-D-glucopyranuronosyl)- D-galactopyranose	29
C <sub>12</sub> H <sub>21</sub> O <sub>13</sub> S <sub>1</sub> Na	k-Carradiitol sulfate sodium salt	161
C <sub>12</sub> H <sub>21</sub> O <sub>14</sub> P·Ba	a-D-Lactose 1-phosphate barium salt	170
C <sub>12</sub> H <sub>21</sub> O <sub>14</sub> PK <sub>2</sub>	Trehalose-6-phosphate dipotassium salt	275
C <sub>12</sub> H <sub>21</sub> O <sub>14</sub> PNa <sub>2</sub>	Trehalose-6-phosphate disodium salt	275
C <sub>12</sub> H <sub>22</sub> O <sub>10</sub>	Rutinulose	249
	Rutinose	249
	Robinose	248
	Neohesperidose	229
	4-O-(a-L-Fucopyranosyl)-D-galactopyranose	98
	3-O-(a-L-Fucopyranosyl)-D-galactopyranose	98

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C <sub>12</sub> H <sub>22</sub> O <sub>10</sub>	Blood Group H disaccharide	45
	Agaroditol	27
C <sub>12</sub> H <sub>22</sub> O <sub>10</sub> S	Thiodiglucoiside	273
	Thiocellobiose	272
	4-O-(b-D-Glucopyranosyl)-b-D- thioglucofuranose	130
	4-O-(b-D-Glucopyranosyl)-a-D- thioglucofuranose	130
	6-O-(a-D-Galactopyranosyl)-b-D- thioglucofuranose	106
	4-O-(b-D-Galactopyranosyl)-b-D- thioglucofuranose	106
	(D-Galactopyranosyl)-b-D-thiogalactopyranoside	106
<sup>13</sup> C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>	[UL-13C12]Sucrose	282
C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>	D-Turanose	282
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	a,a-D-Trehalose anhydrous	274
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	4-O-(a-D-Mannopyranosyl)-D-mannose	195
	3-O-(b-D-Mannopyranosyl)-D-mannopyranose	195
	3-O-(a-D-Mannopyranosyl)-D-mannopyranose	195
	2-O-(b-D-Mannopyranosyl)-D-mannopyranose	195
	2-O-(a-D-Mannopyranosyl)-D-mannopyranose	195
	4-O-(b-D-Mannopyranosyl)-D-glucose	195
	D-Leucrose	174
	Laminarbiose	173
	Lactulose - liquid	172
	Lactulose	172
<sup>13</sup> C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>	[12-C13]-Lactulose	172
C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>	Lactose - anhydrous	169
	b-Lactose - min 70% b-anomer	169
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	Isomaltulose	159
	Isomaltose	159
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	Gentiobiosulose	117
	b-D-Gentiobiose	116
	4-O-(b-D-Galactopyranosyl)-D-mannopyranose	106
	3-O-(b-D-Galactopyranosyl)-D-mannopyranose	105
	2-O-(b-D-Galactopyranosyl)-D-glucose	105
	6-O-(b-D-Galactopyranosyl)-D-glucopyranose	105
	4-O-(a-D-Galactopyranosyl)-D-glucopyranose	104
	3-O-(b-D-Galactopyranosyl)-D-glucopyranose	104
	3-O-(a-D-Galactopyranosyl)-D-glucopyranose	104
	2-O-(a-D-Galactopyranosyl)-D-glucopyranose	104
	a-D-Galactopyranosyl-(1-1)-a-D- galactopyranoside	103
	6-O-(b-D-Galactopyranosyl)-D-galactopyranose	103
	6-O-(a-D-Galactopyranosyl)-D-galactopyranose	103
	4-O-(b-D-Galactopyranosyl)-D-galactopyranose	103
	4-O-(a-D-Galactopyranosyl)-D-galactopyranose	103
	3-O-(b-D-Galactopyranosyl)-D-galactopyranose	103
	3-O-(a-D-Galactopyranosyl)-D-galactopyranose	102
	2-O-(b-D-Galactopyranosyl)-D-galactopyranose	102
	2-O-(a-D-Galactopyranosyl)-D-galactopyranose	102
	b-D-Fructofuranosyl-a-D-galactopyranoside	95
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<sup>13</sup> C <sub>11</sub> H <sub>22</sub> O <sub>11</sub>	[1- <sup>13</sup> C]D-Cellobiose	58
C <sub>12</sub> H <sub>22</sub> O <sub>12</sub>	Maltobionic acid	182
	Lactobionic acid	164
C <sub>12</sub> H <sub>22</sub> O <sub>14</sub> S	Lactose 3'-sulfate	170
C <sub>12</sub> H <sub>23</sub> NO <sub>9</sub>	4-O-(a-D-Glucopyranosyl) moranoline	130
C <sub>12</sub> H <sub>23</sub> NO <sub>10</sub>	4-O-(b-D-Galactopyranosyl)-D-glucosamine	105
(C <sub>12</sub> H <sub>24</sub> N <sub>2</sub> O <sub>9</sub> ) <sub>n</sub>	Chitosan oligosaccharide HCl	62
C <sub>12</sub> H <sub>23</sub> NO <sub>10</sub> ·HCl	Iso-lactosamine HCl	158

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C<sub>14</sub>H<sub>26</sub>N<sub>2</sub>O<sub>11</sub>

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<sup>13</sup> CC <sub>11</sub> H <sub>22</sub> O <sub>11</sub> ·H <sub>2</sub> O	[1-13C]Maltose monohydrate	185
C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> ·H <sub>2</sub> O	D-Lactose monohydrate	170
	a-Lactose monohydrate	170
<sup>13</sup> C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> ·H <sub>2</sub> O	[12-C13]-Lactose	169
C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> ·xH <sub>2</sub> O	Galactinol hydrate	101
C <sub>12</sub> H <sub>24</sub> O <sub>12</sub> S <sub>2</sub>	Kotalanol	163
C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> ·2H <sub>2</sub> O	a,a-D-Trehalose dihydrate endotoxin free	274
	a,a-D-Trehalose dihydrate - EP	274
	a,a-D-Trehalose dihydrate	274
C <sub>12</sub> H <sub>25</sub> N <sub>3</sub> O <sub>6</sub>	Lividamine	180
C <sub>12</sub> H <sub>25</sub> NaO <sub>7</sub>	Paromamine	240
	Kanamycin A Related Compound 1	161
C <sub>12</sub> H <sub>24</sub> N <sub>2</sub> O <sub>9</sub> ·2HCl	Chitobiose 2HCl	60
C <sub>12</sub> H <sub>25</sub> NO <sub>12</sub>	Cellobionic acid ammonium salt	57
C <sub>12</sub> H <sub>26</sub> N <sub>4</sub> O <sub>6</sub>	Neamine	227
C <sub>12</sub> H <sub>24</sub> O <sub>11</sub> ·H <sub>2</sub> O	Lactitol monohydrate	164
C <sub>12</sub> H <sub>26</sub> N <sub>4</sub> O <sub>6</sub> ·4HCl	Neamine hydrochloride	228
C <sub>12</sub> H <sub>14</sub> O <sub>35</sub> S <sub>8</sub> ·NaH <sub>32</sub>	Sucrose octasulfate ammonium salt	263
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	Methyl 6-O-(a-D-mannopyranosyl)-a-D-mannopyranoside	218
	Methyl 4-O-(a-D-mannopyranosyl)-b-D-mannopyranoside	218
	Methyl 4-O-(a-D-mannopyranosyl)-a-D-mannopyranoside	217
	Methyl 3-O-(a-D-mannopyranosyl)-b-D-mannopyranoside	217
	Methyl 3-O-(a-D-mannopyranosyl)-a-D-mannopyranoside	217
	Methyl 2-O-(a-D-mannopyranosyl)-b-D-mannopyranoside	217
	Methyl 2-O-(a-D-mannopyranosyl)-a-D-mannopyranoside	217
	Methyl a-D-lamaribioside	217
	Methyl 4-O-(b-D-galactopyranosyl)-D-glucopyranoside	215
	4-O-(2-O-Methyl-b-D-galactopyranosyl)-D-glucopyranose	215
	Methyl 6-O-(b-D-galactopyranosyl)-b-D-galactopyranoside	215
	Methyl 4-O-(a-D-galactopyranosyl)-b-D-galactopyranoside	215
	Methyl 4-O-(a-D-galactopyranosyl)-a-D-galactopyranoside	215
	Methyl 3-O-(b-D-galactopyranosyl)-b-D-galactopyranoside	215
	Methyl 3-O-(a-D-galactopyranosyl)-b-D-galactopyranoside	214
	Methyl 2-O-(a-D-galactopyranosyl)-b-D-galactopyranoside	214
	Methyl b-D-cellobioside	213
C <sub>13</sub> H <sub>25</sub> NO <sub>10</sub>	4-O-(2-Acetamido-2-deoxy-b-D-glucopyranosyl)ribitol	16
C <sub>13</sub> H <sub>24</sub> N <sub>2</sub> O <sub>11</sub> ·2H <sub>2</sub> O	b-Lactosyl ureide dihydrate	171
C <sub>14</sub> H <sub>17</sub> NNa <sub>2</sub> O <sub>20</sub> S <sub>3</sub>	Chondroitin disaccharide Adi-triS	64
	Chondroitin disaccharide di-triS tetrasodium salt	64
C <sub>14</sub> H <sub>16</sub> NNa <sub>3</sub> O <sub>17</sub> S <sub>2</sub>	Chondroitin disaccharide di-diSE trisodium salt	64
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C <sub>14</sub> H <sub>18</sub> NNa <sub>2</sub> O <sub>17</sub> S <sub>2</sub>	Chondroitin disaccharide di-diSB trisodium salt	63

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C <sub>14</sub> H <sub>19</sub> NO <sub>14</sub> SNa <sub>2</sub>	Heparin disaccharide II-A disodium salt	143
C <sub>14</sub> H <sub>19</sub> NNa <sub>2</sub> O <sub>14</sub> S	Chondroitin disaccharide Adi-6S	64
C <sub>14</sub> H <sub>19</sub> NO <sub>14</sub> SNa <sub>2</sub>	Chondroitin disaccharide 4S sodium salt	64
C <sub>14</sub> H <sub>19</sub> NNa <sub>2</sub> O <sub>14</sub> S	Chondroitin disaccharide di-UA2S disodium salt	64
C <sub>14</sub> H <sub>19</sub> NO <sub>14</sub> S·2Na	Chondroitin disaccharide 6S sodium salt	64
	2-Acetamido-2-deoxy-3-O-(b-D-glucopyranosyl)uronic acid)-6-sulfo-D-galactopyranose disodium salt	15
C <sub>14</sub> H <sub>20</sub> NNaO <sub>11</sub>	Hyaluronic acid disaccharide sodium salt	154
C <sub>14</sub> H <sub>20</sub> NO <sub>11</sub> ·Na	Heparin disaccharide IV-A, sodium salt	144
C <sub>14</sub> H <sub>20</sub> NNaO <sub>11</sub>	Chondroitin disaccharide di-0S sodium salt	64
C <sub>14</sub> H <sub>21</sub> NO <sub>14</sub> S	Heparin disaccharide III-A disodium salt	143
C <sub>14</sub> H <sub>21</sub> NNa <sub>2</sub> O <sub>15</sub> S	Chondroitin disaccharide di-6S	63
C <sub>14</sub> H <sub>21</sub> NO <sub>17</sub> S <sub>2</sub>	Heparin disaccharide I-A trisodium salt	144
C <sub>14</sub> H <sub>23</sub> NO <sub>10</sub>	2-Methyl-(4-O-b-D-glucopyranosyl)-1,2-dideoxy-a-D-glucopyranose [2,1-d]-2-oxazoline	216
C <sub>14</sub> H <sub>24</sub> NNaO <sub>14</sub> S	2-Acetamido-2-deoxy-4-O-(6-sulfo-b-D-galactopyranosyl)-b-D-glucopyranose sodium salt	17
C <sub>14</sub> H <sub>24</sub> NO <sub>14</sub> S·Na	2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-6-sulfo-D-glucopyranose sodium salt	15
C <sub>14</sub> H <sub>25</sub> NO <sub>8</sub>	Acarviosin	9
C <sub>14</sub> H <sub>25</sub> NO <sub>10</sub>	2-O-(2-Acetamido-2-deoxy-b-D-glucopyranosyl)-L-fucopyranose	16
	2-Acetamido-2-deoxy-6-O-(a-L-fucopyranosyl)-D-glucopyranose	12
	2-Acetamido-2-deoxy-4-O-(a-L-fucopyranosyl)-D-glucopyranose	12
	2-Acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-D-glucopyranose	12
C <sub>14</sub> H <sub>25</sub> NO <sub>10</sub> S	2-Acetamido-3-O-(b-D-galactopyranosyl)-2-deoxy-D-thiogalactopyranose	19
C <sub>14</sub> H <sub>25</sub> NO <sub>11</sub>	Lacto-N-biose	164
	Epi-N-Acetyl-lactosamine	90
	N-Acetyl-D-lactosamine - 200mM solution in water	23
	N-Acetyl-D-lactosamine	23
	N-Acetylallo-lactosamine	21
	3-O-[2-(Acetamino)-2-deoxy-D-galactopyranosyl]-D-mannopyranose	20
	2-Acetamido-2-deoxy-4-O-(b-D-mannopyranosyl)-D-glucopyranose	17
	3-O-(2-Acetamido-2-deoxy-b-D-glucopyranosyl)-D-mannopyranose	16
	2-O-(2-Acetamido-2-deoxy-b-D-glucopyranosyl)-D-mannopyranose	16
	6-O-(2-Acetamido-2-deoxy-b-D-glucopyranosyl)-D-galactopyranose	16
	4-O-(2-Acetamido-2-deoxy-a-D-glucopyranosyl)-D-galactopyranose	16
	2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-D-mannopyranose	15
	3-O-(2-Acetamido-2-deoxy-b-D-galactopyranosyl)-D-galactopyranose	14
	3-O-(2-Acetamido-2-deoxy-a-D-galactopyranosyl)-D-galactopyranose	13
	2-Acetamido-2-deoxy-6-O-(b-D-galactopyranosyl)-D-galactopyranose	13
	2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-D-galactopyranose	13
	2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-D-galactopyranose	13
	2-Acetamido-2-deoxy-3-O-(a-D-galactopyranosyl)-D-galactopyranose	13
<sup>13</sup> C <sub>6</sub> C <sub>8</sub> H <sub>25</sub> NO <sub>14</sub> S	2-Acetamido-2-deoxy-4-O-(beta-D-[UL-13-C-6]-galactopyranosyl)-D-glucopyranose 6-sulfate	18
C <sub>14</sub> H <sub>25</sub> NO <sub>14</sub> S	2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-6-sulfo-b-D-glucopyranose	15
C <sub>14</sub> H <sub>25</sub> NO <sub>17</sub> S <sub>2</sub>	2-Acetamido-2-deoxy-4-O-(6-sulfo-b-D-galactopyranosyl)-6-sulfo-D-glucopyranose	17
C <sub>14</sub> H <sub>26</sub> N <sub>2</sub> O <sub>11</sub>	Glycyl-lactose	135

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C <sub>14</sub> H <sub>27</sub> NO <sub>11</sub>	2-Aminoethyl 3-O-(a-D-galactopyranosyl)-b-D-galactopyranoside	30
C <sub>15</sub> H <sub>20</sub> NO <sub>17</sub> S <sub>2</sub> Na <sub>3</sub>	Heparin disaccharide I-P trisodium salt	144
C <sub>15</sub> H <sub>22</sub> O <sub>14</sub>	Sucrose 1,6,6'-tricarboxylic acid trimethyl ester	264
C <sub>15</sub> H <sub>26</sub> O <sub>11</sub>	Lactose 1-O-allyl	169
C <sub>15</sub> H <sub>26</sub> O <sub>13</sub>	1,4-b-D-Xylotriose	285
	1,5-a-L-Arabinotriose	35
C <sub>15</sub> H <sub>27</sub> NO <sub>10</sub>	Methyl 2-acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-b-D-glucopyranoside	210
C <sub>15</sub> H <sub>27</sub> NO <sub>11</sub>	Methyl 3-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-b-D-galactopyranoside	211
	Methyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-glucopyranoside	211
	Methyl 4-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-b-D-galactopyranoside	211
	Methyl 3-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-b-D-galactopyranoside	211
	Methyl 3-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-a-D-galactopyranoside	211
	Methyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-galactopyranoside	210
	Methyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-galactopyranoside	210
	Methyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside	210
C <sub>15</sub> H <sub>28</sub> O <sub>11</sub>	N-Propyl b-lactoside	244
C <sub>15</sub> H <sub>28</sub> O <sub>13</sub>	1,4-b-D-Xylotriitol	285
C <sub>15</sub> H <sub>29</sub> O <sub>11</sub> N	3-Aminopropyl b-D-lactose	31
C <sub>13</sub> H <sub>27</sub> N <sub>3</sub> O <sub>8</sub> ·X(CH <sub>3</sub> CO <sub>2</sub> H)	Garamine acetate salt	116
C <sub>16</sub> H <sub>27</sub> NO <sub>12</sub>	N-Allyloxycarbonyl-b-lactosamine	28
C <sub>16</sub> H <sub>28</sub> N <sub>2</sub> O <sub>16</sub> S	b-D-(2-Acetamido-2-deoxy-D-glucopyranosyl)-2-acetamido-2-deoxy-b-D-thioglucofuranoside	15
C <sub>16</sub> H <sub>28</sub> N <sub>2</sub> O <sub>11</sub>	N,N'-Diacylchitobiose	76
	2-Acetamido-2-deoxy-6-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-D-galactopyranose	12
	2-Acetamido-2-deoxy-3-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-D-galactopyranose	12
	2-Acetamido-2-deoxy-4-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-D-galactopyranose	12
	2-Acetamido-2-deoxy-3-O-(2-acetamido-2-deoxy-a-D-galactopyranosyl)-D-galactopyranose	11
	2-Acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-D-galactopyranose	9
C <sub>16</sub> H <sub>28</sub> Na <sub>4</sub> O <sub>11</sub>	2-Azidoethyl 2-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-a-D-mannopyranoside	38
C <sub>17</sub> H <sub>28</sub> NO <sub>14</sub> ·Na	6'-Sialylgalactose sodium salt	253
	3'-Sialylgalactose sodium salt	253
C <sub>17</sub> H <sub>30</sub> N <sub>2</sub> O <sub>13</sub>	Galactosyl-Tn-antigen	108
	2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranosyl-1-O-L-serine	14
C <sub>18</sub> H <sub>22</sub> O <sub>11</sub>	Asperuloside	37
C <sub>18</sub> H <sub>23</sub> O <sub>19</sub> Na <sub>3</sub>	Tri-mannuronic acid sodium salt	280
	Tri-guluronic acid sodium salt	279
C <sub>18</sub> H <sub>26</sub> O <sub>10</sub>	Benzyl 4-O-(b-D-galactopyranosyl)-b-D-xylopyranoside	43
	Benzyl 4-O-(b-D-galactopyranosyl)-b-D-xylopyranoside	42
C <sub>18</sub> H <sub>26</sub> O <sub>19</sub>	Trigalacturonic acid	279
C <sub>18</sub> H <sub>27</sub> NO <sub>10</sub> S	4-Aminophenyl b-D-thiocellobiose	31
C <sub>18</sub> H <sub>28</sub> O <sub>21</sub> S <sub>2</sub> Na <sub>2</sub>	k-Carratrisose disodium salt	162
C <sub>18</sub> H <sub>30</sub> N <sub>4</sub> O <sub>7</sub> S	N-GlcNAc-Biotin	123
C <sub>18</sub> H <sub>30</sub> O <sub>15</sub>	1,6-Anhydro-b-D-cellobiose	32
	Agarotriose	27
C <sub>18</sub> H <sub>31</sub> N <sub>5</sub> O <sub>11</sub>	2-Azidoethyl 2-acetamido-2-deoxy-3-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-b-D-glucopyranoside	38
C <sub>18</sub> H <sub>31</sub> N <sub>3</sub> O <sub>12</sub>	N-[2-Acetamido-2-deoxy-6-O-(a-L-fucopyranosyl)-D-glucopyranosyl]-L-asparagine	13
C <sub>18</sub> H <sub>32</sub> N <sub>2</sub> O <sub>13</sub>	2-Acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranosyl-1-O-L-threonine	14
C <sub>18</sub> H <sub>32</sub> O <sub>15</sub>	2'-O-Fucosyllactulose	100
	6'-Fucosyllactose	99

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C <sub>18</sub> H <sub>32</sub> O <sub>15</sub>	3-Fucosyllactose	99
	2'-Fucosyllactose - Synthetic	99
	2'-Fucosyllactose - min 90%	99
	N2F N-Glycan	94
	Blood Group B trisaccharide	47
C <sub>18</sub> H <sub>32</sub> O <sub>15</sub> S	4-O-(4-O-(a-D-Glucopyranosyl)-a-D-glucopyranosyl)-b-D-thioglucofuranoside	129
C <sub>18</sub> H <sub>32</sub> O <sub>16</sub>	D-Panose	240
	Nigerotriose	234
	Neokestose	229
	1,6-a-D-Mannotriose	197
	1,4-b-D-Mannotriose	196
	1,3-a-1,6-a-D-Mannotriose	196
	Mannitriose	193
	Maltotriose - Technical	187
	Maltotriose	187
	Laminaritriose	173
	Kojitriose	163
	6-Kestose	163
	1-Kestose	162
	Isopanose	159
	Isomaltotriose	159
	1,3:1,4-b-Glucotriose (B)	132
	1,3:1,4 b-Glucotriose (A)	132
	Globotriose	126
	b-D-Gentiotriose	117
	Gentianose	116
	Gala1-3Galb1-4Glc	110
	3a,4b-Galactotriose	109
	1,6-b-Galactotriose	109
	4-O-b-D-Galactosylsucrose	108
	4-O-b-D-Galactosyl maltose	107
	6'-Galactosyllactose	107
	4'-Galactosyllactose	107
	3'-Galactosyllactose	107
	b-D-Galactopyranosyl-(1-4)-b-D-galactopyranosyl-(1-4)-D-galactose	104
	Eriose	92
	D-Cellobiose	60
C <sub>18</sub> H <sub>32</sub> O <sub>17</sub>	Cellobiotronic acid	60
C <sub>18</sub> H <sub>34</sub> O <sub>16</sub>	Maltotriitol	187
	1,4-b-D-Cellobiitol	59
<sup>13</sup> C <sub>18</sub> H <sub>32</sub> O <sub>16</sub> ·xH <sub>2</sub> O	[UL-13C18]Maltotriose hydrate	282
C <sub>18</sub> H <sub>32</sub> O <sub>16</sub> ·H <sub>2</sub> O	D-Melezitose monohydrate	198
C <sub>18</sub> H <sub>32</sub> O <sub>16</sub> ·xH <sub>2</sub> O	D-Melezitose hydrate	197
C <sub>18</sub> H <sub>32</sub> O <sub>16</sub> ·H <sub>2</sub> O	Maltotriose monohydrate	187
C <sub>18</sub> H <sub>32</sub> O <sub>16</sub> ·5H <sub>2</sub> O	D-Raffinose pentahydrate	245
C <sub>18</sub> H <sub>35</sub> Na <sub>3</sub> O <sub>13</sub> ·3HCl	Chitotriose 3HCl	63
C <sub>12</sub> H <sub>22</sub> O <sub>35</sub> S <sub>8</sub> ·2(C <sub>6</sub> H <sub>15</sub> N)	Sucrose octasulfate triethylammonium salt	264
C <sub>19</sub> H <sub>25</sub> NO <sub>11</sub> S	b-Lactopyranosyl phenylisothiocyanate	169
C <sub>19</sub> H <sub>26</sub> O <sub>11</sub>	4,6-O-Benzylidene-D-maltose	43
C <sub>19</sub> H <sub>26</sub> O <sub>11</sub>	Benzyl 4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside	42
C <sub>19</sub> H <sub>26</sub> O <sub>12</sub>	4-Methoxyphenyl 4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside	206
C <sub>19</sub> H <sub>28</sub> O <sub>14</sub> S·xNa	Benzyl 3'-sulfo-b-D-lactoside sodium salt	43
C <sub>19</sub> H <sub>32</sub> N <sub>2</sub> O <sub>13</sub>	2-Acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-D-muramic acid	10
C <sub>19</sub> H <sub>32</sub> N <sub>2</sub> O <sub>14</sub>	2-Acetamido-2-deoxy-6-a-O-sialyl-D-galactopyranose	17
C <sub>19</sub> H <sub>34</sub> O <sub>11</sub>	Cyclohexylmethyl 4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside	69
C <sub>19</sub> H <sub>34</sub> O <sub>16</sub>	Methyl 6-O-[(3-O-b-D-galactopyranosyl)-b-D-galactopyranosyl]-b-D-galactopyranoside	215
	Methyl 3-O-[(6-O-b-D-galactopyranosyl)-b-D-galactopyranosyl]-b-D-galactopyranoside	215
	Methyl 3,6-di-O-(a-D-mannopyranosyl)-b-D-mannopyranoside	214
	Methyl 3,6-di-O-(a-D-mannopyranosyl)-a-D-mannopyranoside	214
C <sub>20</sub> H <sub>27</sub> NO <sub>11</sub>	D-Mandelonitrile-b-gentiobioside	188
C <sub>20</sub> H <sub>28</sub> O <sub>11</sub>	Methyl 4,6-O-benzylidene-3-O-(b-D-glucopyranoside)-a-D-glucopyranoside	213

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C<sub>24</sub>H<sub>32</sub>O<sub>16</sub>

Formula	Product Name	Page	Formula	Product Name	Page
C <sub>20</sub> H <sub>28</sub> O <sub>11</sub>	Methyl 4-O-[4,6-O-benzylidene)-b-D-galactopyranosyl] b-D-glucopyranoside	213	C <sub>21</sub> H <sub>37</sub> NO <sub>18</sub> S	3'-Sulfated Lewis X methyl glycoside	265
C <sub>20</sub> H <sub>28</sub> N <sub>2</sub> O <sub>12</sub>	4-Nitrophenyl 2-acetamido-2-deoxy-4-O-a-L-fucopyranosyl)-b-D-glucopyranoside	235	C <sub>21</sub> H <sub>38</sub> O <sub>11</sub>	3-Cyclohexylpropyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside	69
C <sub>20</sub> H <sub>28</sub> O <sub>14</sub>	4-O-b-(2,3,4,6-Tetra-O-acetyl-D-galactopyranosyl)-1,6-anhydro-D-mannopyranoside	267	C <sub>22</sub> H <sub>26</sub> O <sub>12</sub>	4-Hydroxy-2-methoxyphenol 1-O-(6-O-syringoyl)glucoside	156
	1,6-Anhydro-4-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-b-D-mannopyranose	33	C <sub>22</sub> H <sub>32</sub> O <sub>11</sub>	Eugenol rutinoside	92
C <sub>20</sub> H <sub>30</sub> O <sub>14</sub>	1,3,4,6-Tetra-O-acetyl-2-(6-deoxy-a-L-galactopyranosyl)-a-D-galactopyranose	267	C <sub>22</sub> H <sub>32</sub> O <sub>16</sub>	3,4,2',3',6'-Penta-O-acetylsucrose	241
C <sub>20</sub> H <sub>34</sub> O <sub>17</sub>	1,4-b-D-Xylofuranose	285		3,4,2',3',4'-Penta-O-acetylsucrose	240
	1,5-a-L-Arabinotetraose	35	C <sub>22</sub> H <sub>33</sub> N <sub>5</sub> O <sub>11</sub>	trans-Zeatin-9-glucoside-o-glucoside	285
C <sub>20</sub> H <sub>35</sub> NO <sub>13</sub> S	Carbomethoxyethylthioethyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside	53	C <sub>22</sub> H <sub>33</sub> NO <sub>15</sub>	2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-D-glucopyranose	19
	Lewis X trisaccharide	177	C <sub>22</sub> H <sub>34</sub> N <sub>2</sub> O <sub>17</sub> -2Na	N-Acetylneuraminic acid dimer disodium salt	24
	Blood Group H type I trisaccharide	51	C <sub>22</sub> H <sub>36</sub> N <sub>2</sub> O <sub>13</sub> S	a1-3-Galactobiose-biotin	101
	Blood Group H type II trisaccharide	50	C <sub>22</sub> H <sub>36</sub> N <sub>2</sub> O <sub>17</sub>	N-Acetyl-9-O-(N-acetyl-a-neuraminosyl)-neuraminic acid	26
	Blood Group A trisaccharide	47		2-Acetamido-6-O-(a-2-N-acetylneuraminyloxy)-a-D-galactopyranosyl serine	11
C <sub>20</sub> H <sub>35</sub> NO <sub>16</sub>	Linear B-2 trisaccharide	179	C <sub>22</sub> H <sub>38</sub> N <sub>2</sub> O <sub>16</sub>	Man-1 N-Glycan	190
	Lacto-N-triose II	172		Forsman antigen triose	94
	Lacto-N-triose I	172		Blood Group A type I linear trisaccharide	51
	Gangliotriose	116		Blood Group A type II linear trisaccharide	50
	Blood Group B type I linear trisaccharide	51		Blood Group A type III/IV linear trisaccharide	49
	Blood Group B type II linear trisaccharide	50		2-Acetamido-6-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-3-O-(b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranose	10
	Blood Group B type III/IV linear trisaccharide	50	C <sub>22</sub> H <sub>40</sub> O <sub>11</sub>	4-Cyclohexylbutyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside	69
	P1-Antigen	33	C <sub>22</sub> H <sub>42</sub> N <sub>4</sub> O <sub>12</sub> S <sub>2</sub>	2,2',2"-Triaminotriethylamine-bis(thiogalactopyranosyl acetamide)	277
	4-O-(6-O-[2-Acetamido-2-deoxy-b-D-glucopyranosyl]-b-D-galactopyranosyl)-D-glucopyranose	16	C <sub>23</sub> H <sub>21</sub> N <sub>3</sub> O <sub>7</sub>	4-Methylumbelliferyl 2-azido-2-deoxy-4,6-O-phenylmethylene-a-D-galactopyranoside	219
	6-O-[2-Acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-b-D-glucopyranosyl]-D-galactopyranose	15	C <sub>23</sub> H <sub>28</sub> O <sub>11</sub>	Albiflorin	28
	4-O-[3-O-(2-Acetamido-2-deoxy-b-D-galactopyranosyl)-b-D-galactopyranosyl]-D-glucose	14	C <sub>23</sub> H <sub>32</sub> O <sub>14</sub>	4-O-b-(2,3,4,6-Tetra-O-acetyl-D-galactopyranosyl)-1,6-anhydro-2,3-O-isopropylidene-b-D-mannopyranose	267
	4-O-[3-O-(2-Acetamido-2-deoxy-a-D-galactopyranosyl)-b-D-galactopyranosyl]-D-glucopyranose	14		1,6-Anhydro-2,3-O-isopropylidene-4-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-b-D-mannopyranose	33
	2-Acetamido-2-deoxy-4-O-[(4-O-b-D-galactopyranosyl)-b-D-galactopyranosyl]-D-glucopyranose	14	C <sub>23</sub> H <sub>34</sub> N <sub>2</sub> O <sub>11</sub>	Benzyl N,N-di-acetyl-b-chitobioside	42
C <sub>20</sub> H <sub>35</sub> NO <sub>18</sub> S	3'-Sulfated Lewis X	265	C <sub>23</sub> H <sub>34</sub> N <sub>2</sub> O <sub>12</sub>	4-Methoxyphenyl 4-O-(2-acetamido-2-deoxy-b-D-galactopyranosyl)-2-acetamido-2-deoxy-b-D-glucopyranoside	200
	3'-Sulfated Lewis A	264		Methyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-a-D-galactopyranosyl)-2-deoxy-a-D-galactopyranoside	212
	2-Acetamido-2-deoxy-4-O-(3-sulfo-a-D-galactopyranosyl)-3-O-(a-L-fucopyranosyl)-D-glucopyranose	17		Methyl 2-acetamido-2-deoxy-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranoside	211
C <sub>20</sub> H <sub>36</sub> O <sub>11</sub>	2-Cyclohexylethyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside	69	C <sub>23</sub> H <sub>36</sub> N <sub>2</sub> O <sub>14</sub>	Methyl 2-acetamido-4-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)-2-deoxy-b-D-glucopyranoside	210
C <sub>20</sub> H <sub>36</sub> N <sub>2</sub> O <sub>15</sub>	Glycyl-2'-fucosylactose	134		6'-Sialyllactose sodium salt	255
C <sub>21</sub> H <sub>20</sub> O <sub>11</sub>	Luteolin 5-glucoside	181		3'-Sialyllactose sodium salt	255
C <sub>21</sub> H <sub>24</sub> O <sub>11</sub>	Phloretin-3-hydroxy-2'-O-glucoside	242	C <sub>23</sub> H <sub>38</sub> N <sub>3</sub> O <sub>16</sub>	2-Acetamido-6-O-(a-2-N-acetylneuraminyloxy)-2-deoxy-a-D-galactopyranosyl threonine	11
C <sub>21</sub> H <sub>31</sub> NO <sub>11</sub>	Benzyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside	40		Methyl 2-acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-6-O-(a-L-fucopyranosyl)-b-D-glucopyranoside	209
	Benzyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-a-D-glucopyranoside	40	C <sub>23</sub> H <sub>40</sub> N <sub>2</sub> O <sub>15</sub>	Globotriose 2-(2-carboxylethylthio)ethane	126
	Benzyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-glucopyranoside	40	C <sub>23</sub> H <sub>40</sub> O <sub>18</sub> S	5-Cyclohexylpentyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside	69
	Benzyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-a-D-galactopyranoside	39		Linear B-6 trisaccharide 1-O-n-pentylamine	179
	Benzyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside	39	C <sub>24</sub> H <sub>30</sub> O <sub>25</sub> Na <sub>4</sub>	Tetra-mannuronic acid sodium salt	272
	Benzyl 2-acetamido-2-deoxy-4-O-(b-D-galactofuranosyl)-a-D-glucopyranoside	39		Tetra-guluronic acid sodium salt	272
C <sub>21</sub> H <sub>32</sub> O <sub>15</sub>	Methyl 3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-a-D-mannopyranoside	218	C <sub>24</sub> H <sub>32</sub> O <sub>15</sub>	Hexa-O-acetylmaltal	150
	Blood Group B trisaccharide-b-allyl glycoside	48		3,6-Di-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-D-glucal	78
C <sub>21</sub> H <sub>36</sub> O <sub>15</sub>	Lewis X trisaccharide methyl glycoside	177	C <sub>24</sub> H <sub>32</sub> O <sub>16</sub>	2,3,2',3',4',6'-Hexa-O-acetyl-1,6-anhydro-b-D-maltose	149
C <sub>21</sub> H <sub>37</sub> NO <sub>15</sub>	Lewis A trisaccharide methyl glycoside	175		2,3,2',3',4',6'-Hexa-O-acetyl-1,6-anhydro-b-D-cellobiose	149
C <sub>21</sub> H <sub>37</sub> NO <sub>18</sub> S	4'-Sulfated Lewis X methyl glycoside	265			

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C <sub>24</sub> H <sub>34</sub> O <sub>25</sub>	Tetragalacturonic acid	272
C <sub>24</sub> H <sub>34</sub> O <sub>31</sub> S <sub>4</sub>	a-Carrageenan	57
C <sub>24</sub> H <sub>36</sub> O <sub>15</sub>	Methyl 2-O-allyl-3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-a-D-mannopyranoside	212
C <sub>24</sub> H <sub>38</sub> O <sub>19</sub>	Neogaotetraose	228
C <sub>24</sub> H <sub>38</sub> O <sub>25</sub> S <sub>2</sub> Na <sub>2</sub>	k-Carratetraol disulfate disodium salt	162
C <sub>24</sub> H <sub>39</sub> N <sub>3</sub> O <sub>17</sub>	2-Acetamido-6-O-(a-2-N-acetylneuraminy)-2-deoxy-a-D-galactopyranosyl N-acetylserine	10
C <sub>24</sub> H <sub>41</sub> NO <sub>10</sub>	Memantine lactose adduct	198
C <sub>24</sub> H <sub>41</sub> NO <sub>10</sub>	Memantine N-cellobioside	198
C <sub>24</sub> H <sub>41</sub> N <sub>3</sub> O <sub>16</sub>	N,N',N"-Triacetylchitotriose	275
C <sub>24</sub> H <sub>42</sub> O <sub>17</sub>	Blood Group B trisaccharide-(CH <sub>2</sub> ) <sub>5</sub> COOH derivative	48
C <sub>24</sub> H <sub>42</sub> O <sub>18</sub> S <sub>3</sub>	Thiocellotetraose	273
C <sub>24</sub> H <sub>42</sub> O <sub>19</sub>	Lactodifucotetraose	166
C <sub>24</sub> H <sub>42</sub> O <sub>21</sub>	Verbascotetraose	283
	Stachyose hydrate - 98%	260
	Stachyose - 70%	260
	Nystose	235
	1,4-b-D-Mannotetraose	196
	1,3-a-1,6-a-D-Mannotetraose	196
	6-O-(a-D-Maltotriosyl)-D-glucopyranose	187
	Maltotetraose	186
	Maltosyl trehalose	186
	Laminaritetraose	173
	Kojitetraose	163
	Isomaltotetraose	159
	1,3:1,4-b-Glucotetraose (B)	132
	1,3:1,4-b-Glucotetraose (A)	131
	1,3:1,4 b-Glucotetraose (C)	132
	6-a-D-Glucopyranosyl maltotriose	129
	3a,4b,3a-Galactotetraose	108
	1,4-b-Galactotetraose	108
	a-D-Galactosyl-mannotriose	108
	D-Cellotetraose	59
C <sub>24</sub> H <sub>44</sub> O <sub>21</sub>	Maltotetraol	186
	1,4-b-D-Cellotetraol	59
C <sub>24</sub> H <sub>42</sub> O <sub>21</sub> ·H <sub>2</sub> O	Stachyose hydrate - 80%	260
C <sub>24</sub> H <sub>45</sub> NO <sub>12</sub>	Maltobionic acid dicyclohexylammonium salt	182
C <sub>24</sub> H <sub>46</sub> Na <sub>4</sub> O <sub>17</sub> ·4HCl	Chitotetraose 4HCl	62
C <sub>25</sub> H <sub>36</sub> O <sub>12</sub>	4-Methoxyphenyl 4-O-(3-O-allyl-b-D-galactopyranosyl)-3-O-allyl-b-D-glucopyranoside	202
C <sub>25</sub> H <sub>41</sub> N <sub>2</sub> O <sub>19</sub> Na	3'-Sialylgalacto-N-biose sodium salt	253
C <sub>25</sub> H <sub>41</sub> N <sub>2</sub> NaO <sub>19</sub>	6'-a-Sialyl-N-acetylglucosamine sodium salt	252
C <sub>25</sub> H <sub>42</sub> N <sub>4</sub> O <sub>14</sub>	N,N'-Diacetylchitobiosyl allosamizoline	76
	Allosamidin	28
C <sub>25</sub> H <sub>42</sub> N <sub>2</sub> O <sub>19</sub>	3'-Sialyl-N-acetylglucosamine	251
	3'-b-Sialyl-N-acetylglucosamine	251
	Neu5Ac(a2-6)Gal(b1-4)GalNAc	230
C <sub>25</sub> H <sub>42</sub> N <sub>2</sub> O <sub>19</sub> ·Na	3'-a-Sialyl-N-acetylglucosamine sodium salt	252
C <sub>25</sub> H <sub>42</sub> N <sub>2</sub> O <sub>20</sub>	NeuAc-a2,3-Gal-b-1,4-Glc-GlycineNH <sub>2</sub>	230
	3'-N-Acetylneuraminy-N-acetylglucosamine HSA	25
C <sub>25</sub> H <sub>42</sub> O <sub>21</sub>	1,4-b-D-Xylopentaose	284
	1,5-a-L-Arabinopentaose	35
	3^3-a-L-Arabinofuranosyl-xylo-tetraose	34
C <sub>25</sub> H <sub>43</sub> NO <sub>18</sub>	Acarbose	9
C <sub>25</sub> H <sub>44</sub> O <sub>26</sub> S	Methyl-O-b-D-glucopyranosyl-(1-3)-S-b-D-glucopyranosyl-(1-4)-O-4-thio-b-D-glucopyranosyl-(1-4)-b-D-glucopyranoside	216
	Methyl (4S)-b-cellobiosyl-4-thio-b-cellobioside	213
C <sub>25</sub> H <sub>46</sub> O <sub>10</sub> Si <sub>2</sub>	3',4'-O-Carbonyl-6,6'-di-O-tert-butylidimethylsilyl lactal	54
C <sub>25</sub> H <sub>46</sub> N <sub>2</sub> O <sub>15</sub>	Lewis X 1-O-n-pentylamine	176
C <sub>7</sub> <sup>13</sup> C <sub>8</sub> H <sub>25</sub> NO <sub>10</sub>	4-O-(2-Acetamido-2-deoxy-D-[UL-13C6]glucopyranosyl)-D-ribitol	18
C <sub>26</sub> H <sub>28</sub> O <sub>14</sub>	Apiin	34
C <sub>26</sub> H <sub>29</sub> O <sub>16</sub> ·Cl	Delphinidin 3-sambubioside chloride	71
C <sub>26</sub> H <sub>30</sub> O <sub>9</sub>	1,6:2,3-Dianhydro-4-O-(2,3-di-O-benzyl-b-D-glucopyranosyl)-b-D-mannopyranose	78
C <sub>26</sub> H <sub>30</sub> O <sub>13</sub>	Isoliquiritin apioside	158
C <sub>26</sub> H <sub>32</sub> O <sub>14</sub>	Phloretin 2'-O-xylosyl-glicoside	242
C <sub>26</sub> H <sub>35</sub> NO <sub>16</sub>	2-Methyl-(3,6-di-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-1,2-dideoxy-a-D-glucopyranose)-[2,1-d]-2-oxazoline	214

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C <sub>26</sub> H <sub>35</sub> BrO <sub>17</sub>	2,4,6-Tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-a-D-glucopyranosyl bromide	276
	2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-maltosyl bromide	146
	2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-lactosyl bromide	145
	2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-cellobiosyl bromide	145
	1-Bromo-2,4,6-tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-a-D-glucopyranoside	52
C <sub>26</sub> H <sub>35</sub> FO <sub>17</sub>	2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-lactosyl fluoride	145
	2,3,6,2',3',4',6'-Hepta-O-acetyl-a-D-cellobiosyl fluoride	145
C <sub>26</sub> H <sub>35</sub> N <sub>3</sub> O <sub>17</sub>	1,3,6-Tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-azido-2-deoxy-D-glucopyranose	276
	1,3,6-Tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-azido-2-deoxy-a-D-glucopyranose	276
	2,3,6,2',3',4',6'-Hepta-O-acetyl-b-maltosyl azide	146
	2,3,6,2',3',4',6'-Hepta-O-acetyl-b-lactosyl azide	145
	2,3,6,2',3',4',6'-Hepta-O-acetyl-b-D-cellobiosyl azide	145
C <sub>26</sub> H <sub>36</sub> O <sub>17</sub>	Neohesperidose heptaacetate	229
	Hepta-O-acetylrutinose	147
C <sub>26</sub> H <sub>36</sub> O <sub>18</sub>	2,3,6-Tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-D-mannopyranose	277
	2,3,4-Tri-O-acetyl-6-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-D-glucopyranose	276
	2,3,6,2',3',4',6'-Hepta-O-acetyl-D-maltose	149
C <sub>26</sub> H <sub>37</sub> ClN <sub>2</sub> O <sub>15</sub>	N,N'-Diacetyl-3,6,3',4',6'-penta-O-acetyl-1-chlorochitobioside	77
	N,N'-Diacetyl-3,6,3',4',6'-penta-O-acetyl-D-chitobiosyl chloride	77
C <sub>26</sub> H <sub>37</sub> NO <sub>16</sub>	2-Acetamido-2-deoxy-1,4,6-tri-O-acetyl-3-O-(2,3,4-tri-O-acetyl-a-L-fucopyranosyl)-D-glucopyranose	18
C <sub>26</sub> H <sub>38</sub> N <sub>2</sub> O <sub>15</sub>	4-Deoxy-D-chitobiose heptaacetate	71
C <sub>26</sub> H <sub>43</sub> NO <sub>20</sub>	2-Methyl-(4-O-(3,6-di-O-a-D-mannopyranosyl)-b-D-mannopyranosyl)-1,2-dideoxy-a-D-glucopyranose)-[2,1-d]-2-oxazoline	214
C <sub>26</sub> H <sub>45</sub> NO <sub>18</sub>	N-Methyl acarbose	209
C <sub>26</sub> H <sub>45</sub> NO <sub>19</sub>	Lewis Y tetrasaccharide	178
	Lewis B tetrasaccharide	176
C <sub>26</sub> H <sub>45</sub> NO <sub>20</sub>	Lewis X tetrasaccharide	176
	Lewis A tetrasaccharide	174
	Blood Group B type I tetrasaccharide	51
	Blood Group B type II tetrasaccharide	50
	Blood Group B type III/IV tetrasaccharide	50
	Blood group H tetraose type II	47
C <sub>26</sub> H <sub>45</sub> NO <sub>21</sub>	Lacto-N-tetraose	171
	Lacto-N-neotetraose	169
	Globo-N-tetraose	125
	Globoisotetraose	124
	Gangliotetraose	116
C <sub>26</sub> H <sub>46</sub> N <sub>2</sub> O <sub>13</sub>	8-Ethoxycarbonylheptyl N,N'-di-O-acetyl-b-chitobioside	92
C <sub>27</sub> H <sub>28</sub> O <sub>18</sub>	2-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-4-oxo-4H-1-benzopyran-3-yl O-b-D-galactopyranosyl-b-D-glucopyranosiduronic acid	84
C <sub>27</sub> H <sub>30</sub> O <sub>14</sub>	Vitexin-2-O-rhamnoside	283
	Isorhoifolin	160
	Apigenin-7-neohesperidoside	34
C <sub>27</sub> H <sub>30</sub> O <sub>15</sub>	Safflor Yellow A	249
C <sub>27</sub> H <sub>30</sub> O <sub>16</sub>	Rutin	248
C <sub>27</sub> H <sub>30</sub> O <sub>17</sub>	Quercetin 3-O-gentobioside	245
C <sub>27</sub> H <sub>31</sub> O <sub>14</sub> Cl	Pelargonidin-3-O-rutinoside chloride	240
C <sub>27</sub> H <sub>31</sub> O <sub>15</sub> Cl	Cyanidin-3-O-rutinoside chloride	66
C <sub>27</sub> H <sub>32</sub> O <sub>16</sub>	Hydroxysafflor yellow A	156
C <sub>27</sub> H <sub>30</sub> O <sub>16</sub> ·3H <sub>2</sub> O	Rutin hydrate	249
C <sub>27</sub> H <sub>34</sub> O <sub>14</sub>	Naringin dihydrochalcone	227
C <sub>27</sub> H <sub>32</sub> O <sub>14</sub> ·H <sub>2</sub> O	Naringin hydrate	227
C <sub>27</sub> H <sub>32</sub> O <sub>14</sub> ·2H <sub>2</sub> O	Naringin dihydrate	227



Formula	Product Name	Page	Formula	Product Name	Page
C <sub>27</sub> H <sub>35</sub> N <sub>2</sub> O <sub>17</sub> S	2,3,6,2',3',4',6'-Hepta-O-acetyl-b-D-maltosyl isothiocyanate	147	C <sub>28</sub> H <sub>48</sub> N <sub>2</sub> O <sub>20</sub>	Blood Group A tetrasaccharide type II	47
	2,3,6,2',3',4',6'-Hepta-O-acetyl-b-D-lactosyl isothiocyanate	146	C <sub>28</sub> H <sub>48</sub> N <sub>2</sub> O <sub>21</sub>	Man-2b N-Glycan	190
C <sub>27</sub> H <sub>38</sub> N <sub>2</sub> O <sub>17</sub> S	2-(2,3,6-Tri-O-acetyl-4-O-[(2,3,4,6-tetra-O-acetyl-a-D-glucopyranosyl)]-b-D-glucopyranosyl)thiopsedourea	276		Man-2a N-Glycan	190
C <sub>27</sub> H <sub>38</sub> O <sub>18</sub>	Methyl a-D-laminaribioside heptaacetate	217	C <sub>28</sub> H <sub>50</sub> O <sub>17</sub>	Blood Group B trisaccharide ester derivative	49
C <sub>27</sub> H <sub>45</sub> NO	Solanin D	259		Blood Group B trisaccharide-(CH <sub>2</sub> ) <sub>8</sub> COOMe derivative	49
C <sub>28</sub> H <sub>32</sub> O <sub>14</sub>	Acacetin-7-neohesperidoside	9	C <sub>28</sub> H <sub>51</sub> NO <sub>16</sub>	Octyl 2-acetamido-2-deoxy-b-D-glucopyranosyl-(1-2)-a-D-mannopyranosyl-(1-2)-b-D-glucopyranoside	237
C <sub>28</sub> H <sub>32</sub> O <sub>15</sub>	Diosmin - 90%	87	C <sub>28</sub> H <sub>52</sub> O <sub>12</sub>	Sucrose palmitate	264
C <sub>28</sub> H <sub>32</sub> O <sub>16</sub>	Isorhamnetin-3-O-robinobioside	160		Sucrose monopalmitate	263
	Calendoflavoside	53	C <sub>29</sub> H <sub>34</sub> O <sub>15</sub>	Pectolarin	240
C <sub>28</sub> H <sub>33</sub> O <sub>14</sub>	Linarin	179	C <sub>29</sub> H <sub>35</sub> ClO <sub>13</sub>	Empagliflozin 6-O-b-D-glucuronide	90
C <sub>28</sub> H <sub>33</sub> O <sub>15</sub> Cl	Peonidin-3-O-rutinoside chloride	241	C <sub>29</sub> H <sub>36</sub> O <sub>15</sub>	Verbascoside	283
C <sub>28</sub> H <sub>34</sub> O <sub>15</sub>	Neohesperidin	229		Methyl hesperidine	216
	Hesperidin	149		Isoacteoside	157
C <sub>28</sub> H <sub>35</sub> NO <sub>11</sub>	Benzyl 2-acetamido-4,6-O-benzylidene-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside	39		Hesperidin methylchalcone	149
C <sub>28</sub> H <sub>36</sub> O <sub>13</sub>	(-)-Syringaresinol-4"-O-b-D-monoglucopyranoside	266	C <sub>29</sub> H <sub>36</sub> O <sub>16</sub>	Forsythoside A	95
C <sub>28</sub> H <sub>36</sub> O <sub>15</sub>	Neohesperidin dihydrochalcone hydrate	229	C <sub>29</sub> H <sub>38</sub> O <sub>16</sub>	Plantamajoside	242
C <sub>28</sub> H <sub>38</sub> N <sub>2</sub> O <sub>17</sub>	4-Nitrophenyl 2-acetamido-2-deoxy-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranoside	235	C <sub>29</sub> H <sub>39</sub> NO <sub>15</sub>	Benzyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-a-D-glucopyranoside	41
C <sub>28</sub> H <sub>36</sub> Cl <sub>3</sub> NO <sub>18</sub>	b-D-Lactosyltrichloroacetimidate heptaacetate	171		Benzyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranoside	41
C <sub>28</sub> H <sub>38</sub> O <sub>18</sub> S	4-O-(2,3,4,6-Tetra-O-acetyl-b-D-glucopyranosyl)-1,2,3,6-tetra-O-acetyl-b-D-thioglucopyranose	268		Benzyl 2-acetamido-2-deoxy-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-glucopyranoside	41
	6-O-(2,3,4,6-Tetra-O-acetyl-a-D-galactopyranosyl)-1,2,3,6-tetra-O-acetyl-b-D-thioglucopyranose	268	C <sub>29</sub> H <sub>40</sub> O <sub>19</sub> S	3-(Hepta-O-acetyl-b-lactopyranosyl)thio-propanoic acid	145
	4-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-1,2,3,6-tetra-O-acetyl-b-D-thioglucopyranose	268	C <sub>29</sub> H <sub>42</sub> N <sub>2</sub> O <sub>18</sub>	2-O-Acetamido-1,6-di-O-acetyl-2-deoxy-4-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-D-glucopyranosyl)muramic acid	18
C <sub>28</sub> H <sub>38</sub> O <sub>19</sub>	1,2,3,4-Tetra-O-acetyl-6-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-D-mannopyranose	270		2-Acetamido-4-O-(2-acetamido-2-deoxy-3,4,6-tri-O-acetyl-b-D-glucopyranosyl)-1,6-di-O-N-acetyl-D-muramic acid	10
	1,2,3,6-Tetra-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-mannopyranosyl)-D-glucopyranose	269	C <sub>29</sub> H <sub>49</sub> NO <sub>23</sub>	3'-Sialyl-3-fucosyllactose	252
	1,2,4,6-Tetra-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-D-glucopyranose	269		Monosialyllactose	224
	1,2,4,6-Tetra-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-a-D-glucopyranose	269		3-O-(a-L-Fucopyranosyl)-4-O-(3-sialyl-b-D-galactopyranosyl)-D-glucose	98
	1,2,3,6-Tetra-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-D-mannopyranose	269	C <sub>29</sub> H <sub>50</sub> N <sub>2</sub> O <sub>20</sub>	6'-Sialyllactose-CPG	255
	1,2,4,6-Tetra-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-a-D-galactopyranosyl)-D-galactopyranose	269		3'-Sialyllactose-CPG	255
	4-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-1,2,3,6-tetra-O-acetyl-D-mannopyranose	268	C <sub>29</sub> H <sub>52</sub> N <sub>2</sub> O <sub>19</sub>	1-O-Aminohexyl 6'-sialyllactose	30
	Sucrose octaacetate	263		1-O-Aminohexyl 3'-sialyllactose	30
	b-D-Maltose octaacetate	185	C <sub>29</sub> H <sub>54</sub> N <sub>2</sub> O <sub>16</sub>	Blood Group B trisaccharide, N-aminoethyl nonanamide	48
	a-D-Maltose octaacetate	185	C <sub>30</sub> H <sub>37</sub> O <sub>31</sub> Na <sub>5</sub>	Penta-mannuronic acid sodium salt	241
	Lactose octaacetate	170		Penta-guluronic acid sodium salt	241
	Gentiobiose octaacetate	117	C <sub>30</sub> H <sub>39</sub> NO <sub>15</sub>	Methyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-O-benzylidene-2-deoxy-b-D-glucopyranoside	212
	b-Gentiobiose octaacetate	117	C <sub>30</sub> H <sub>39</sub> NO <sub>20</sub>	O-(2,2',3,3',4',6,6'-Hepta-O-acetyl-b-D-maltosyl)-N-hydroxysuccinimide	146
	D-Cellobiose octaacetate	58		O-(2,2',3,3',4',6,6'-Hepta-O-acetyl-b-D-lactosyl)-N-hydroxysuccinimide	146
C <sub>28</sub> H <sub>39</sub> NO <sub>18</sub>	N-Acetyl-D-lactosamine heptaacetate	24	C <sub>30</sub> H <sub>41</sub> NO <sub>17</sub>	Lewis X trisaccharide 4-methylumbelliferyl glycoside	177
C <sub>28</sub> H <sub>40</sub> N <sub>2</sub> O <sub>17</sub>	Chitobiose octaacetate	61	C <sub>30</sub> H <sub>42</sub> O <sub>31</sub>	Pentagalacturonic Acid	241
C <sub>28</sub> H <sub>40</sub> O <sub>17</sub> S	Ethyl 2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-D-thioglucopyranoside	92	C <sub>30</sub> H <sub>44</sub> O <sub>18</sub> N <sub>2</sub>	2-O-Acetamido-1,6-di-O-acetyl-2-deoxy-4-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-D-glucopyranosyl)muramic acid methyl ester	18
C <sub>28</sub> H <sub>44</sub> N <sub>2</sub> O <sub>23</sub>	Hyaluronic acid tetrasaccharide	155	C <sub>30</sub> H <sub>44</sub> N <sub>4</sub> O <sub>18</sub>	4-Nitrophenyl 2-acetamido-3,6-di-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside	235
C <sub>28</sub> H <sub>44</sub> N <sub>4</sub> Na <sub>20</sub> O <sub>25</sub> S	GlcA[3S]b(1-3)Galb(1-4)GlcNAcb(1-2)Mana-Ethylazide	122	C <sub>30</sub> H <sub>45</sub> O <sub>33</sub> S <sub>3</sub> Na <sub>3</sub>	k-Carrapentaose trisodium salt	162
C <sub>28</sub> H <sub>42</sub> N <sub>2</sub> O <sub>22</sub> ·xNH <sub>3</sub>	Hyaluronic acid tetrasaccharide ammonium salt	155	C <sub>30</sub> H <sub>48</sub> O <sub>24</sub>	Agaropentaose	27
C <sub>28</sub> H <sub>47</sub> N <sub>3</sub> O <sub>21</sub>	D-Galactopyranosyl-(b1-3)-[N-acetylneuraminyl-(a2-6)]-D-N-acetylgalactosaminyl serine	102	C <sub>30</sub> H <sub>49</sub> N <sub>3</sub> O <sub>18</sub> S	Biotinylated Linear B trisaccharide	44
	N-Acetylneuraminyl-(a2-3)-D-galactopyranosyl-(b1-3)-D-N-acetylgalactosaminyl serine	25	C <sub>30</sub> H <sub>50</sub> O <sub>25</sub>	1,4-b-D-Xylohexaose	284
C <sub>28</sub> H <sub>48</sub> N <sub>2</sub> O <sub>20</sub>	Man-1-F-N-Glycan	188		1,5-a-L-Arabinohexaose	35
	Blood group A type 3/4 tetrasaccharide	52		1,6-Anhydro-b-D-cellopentaose	32
	Blood group A type I tetrasaccharide	51			
	Blood Group A tetrasaccharide type VI	47			

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C <sub>30</sub> H <sub>52</sub> O <sub>23</sub> S	Carbomethoxyethylthioethyl 4-O-(4-O-[6-O-(a-D-glucopyranosyl)-a-D-glucopyranosyl]-a-D-glucopyranosyl)-b-D-glucopyranoside	54
C <sub>30</sub> H <sub>52</sub> O <sub>24</sub>	Blood Group B pentasaccharide	46
C <sub>30</sub> H <sub>52</sub> O <sub>26</sub>	Verbascose	283
	a1-3[a1-6]a1-6[a1-3]Mannopentaose	194
C <sub>30</sub> O <sub>26</sub> H <sub>52</sub>	1,4-b-D-Mannopentaose	194
C <sub>30</sub> H <sub>52</sub> O <sub>26</sub>	Maltopentaose	184
	Laminaripentaose	173
	Kojipentaose	163
	1,1,1-Kestopentaose	162
	Isomaltopentaose	159
	D-Cellopentaose	59
C <sub>30</sub> H <sub>53</sub> NO <sub>17</sub>	Blood group A trisaccharide ester derivative	49
	Blood Group A trisaccharide-(CH <sub>2</sub> ) <sub>8</sub> COOMe derivative	49
C <sub>30</sub> H <sub>54</sub> O <sub>26</sub>	1,4-b-D-Cellopentaitol	59
C <sub>30</sub> H <sub>56</sub> O <sub>12</sub>	Sucrose stearate - 70% monostearate	264
	Sucrose, monoctadecanoate	263
	a-D-Glucopyranoside-b-D-fructofuranosyl octadecanoate	127
C <sub>30</sub> H <sub>57</sub> NO <sub>12</sub>	Lactosylsphingosine	171
C <sub>30</sub> H <sub>57</sub> N <sub>5</sub> O <sub>21</sub> ·5HCl	Chitopentaose 5HCl	61
C <sub>31</sub> H <sub>40</sub> O <sub>15</sub>	Methyl 2-O-allyl-4,6-O-benzylidene-3-O-(2',3',4',6'-tetra-O-acetyl-a-D-mannopyranosyl)-a-D-mannopyranoside	212
C <sub>31</sub> H <sub>40</sub> O <sub>18</sub>	4-Methoxyphenyl 2,3,6-O-acetyl-4-O-(2,4,6-tri-O-acetyl-b-D-galactopyranosyl)-b-D-glucopyranoside	202
C <sub>31</sub> H <sub>41</sub> NO <sub>16</sub>	Methyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-4,6-O-(4-methoxybenzylidene)-a-D-galactopyranoside	212
	Methyl 2-acetamido-2-deoxy-4,6-anisolydene-3-O-[b-D-(2,3,4,6-tetra-O-acetyl)galactopyranosyl]-a-D-galactopyranoside	210
C <sub>31</sub> H <sub>42</sub> O <sub>15</sub>	4-Methoxyphenyl 4-O-(2,4,6-tri-O-acetyl-3-O-allyl-b-D-galactopyranosyl)-3-O-allyl-b-D-glucopyranoside	208
C <sub>31</sub> H <sub>51</sub> N <sub>2</sub> O <sub>24</sub> Na	GM2-Oligosaccharide	138
C <sub>31</sub> H <sub>52</sub> N <sub>2</sub> O <sub>23</sub>	3'-Sialyl Lewis X	257
	3'-Sialyl Lewis A	256
C <sub>31</sub> H <sub>54</sub> N <sub>4</sub> O <sub>14</sub> S	Lactose-sp-biotin	170
C <sub>31</sub> H <sub>56</sub> N <sub>2</sub> O <sub>19</sub>	Lewis Y 1-O-n-pentylamine	178
C <sub>31</sub> H <sub>57</sub> N <sub>3</sub> O <sub>16</sub>	Blood Group A trisaccharide, N-aminoethyl nonanamide	48
C <sub>31</sub> H <sub>58</sub> O <sub>10</sub> Si <sub>2</sub>	3',4'-O-Carbonyl-6,6'-di-O-triisopropylsilyl lactal	54
C <sub>32</sub> H <sub>38</sub> O <sub>19</sub>	Camelliaside B	53
C <sub>32</sub> H <sub>41</sub> NO <sub>17</sub> S	4-Aminophenyl 2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-thioglucopyranoside	31
C <sub>32</sub> H <sub>42</sub> O <sub>16</sub>	Pinorensinol diglucoside	242
C <sub>32</sub> H <sub>43</sub> NO <sub>15</sub>	Benzyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-4,6-O-isopropylidene-D-galactopyranose	41
C <sub>32</sub> H <sub>46</sub> N <sub>2</sub> O <sub>23</sub>	GalNAcb(1-3)Gala(1-3)Galb(1-4)Glc-b-pNP	114
C <sub>32</sub> H <sub>54</sub> N <sub>4</sub> O <sub>21</sub>	N,N',N'',N'''-Tetraacetylchitotetraose	267
C <sub>32</sub> H <sub>54</sub> N <sub>2</sub> O <sub>23</sub>	Sialyl Lewis-x-methyl glycoside	257
	Sialyl Lewis X methyl glycoside	257
C <sub>32</sub> H <sub>55</sub> NO <sub>24</sub>	Lewis Y pentasaccharide	178
	Lewis B pentasaccharide	176
	Blood Group A pentasaccharide	46
C <sub>32</sub> H <sub>55</sub> NO <sub>25</sub>	Lacto-N-neofucopentaose	168
	Lacto-N-fucopentaose VI	167
	Lacto-N-fucopentaose V	167
	Lacto-N-fucopentaose II	166
	Lacto-N-fucopentaose I	166
	Blood Group B pentasaccharide type II	47
	Blood Group B pentasaccharide type I	46
	Blood group H pentaose type II	46
C <sub>32</sub> H <sub>55</sub> NO <sub>26</sub>	Globopentaose	124
	Galb1-3Galb1-4GlcNAcb1-3Galb1-4Glc	111
	Gala1-3Galb1-4GlcNAcb1-3Galb1-4Glc	110
C <sub>32</sub> H <sub>56</sub> N <sub>2</sub> O <sub>17</sub>	8-Methoxycarbonyloctyl-6-O-(a-L-fucopyranosyl)-N,N'-diacetyl-chitobioside	199

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C <sub>32</sub> H <sub>55</sub> NO <sub>25</sub> ·H <sub>2</sub> O	Lacto-N-fucopentaose III	167
C <sub>33</sub> H <sub>34</sub> O <sub>9</sub>	1,6:2,3-Dianhydro-4-O-(2,3-di-O-benzyl-4,6-O-benzylidene-b-D-glucopyranosyl)-b-D-mannopyranose	78
C <sub>33</sub> H <sub>40</sub> O <sub>19</sub>	Robinin	248
	Apigenin 7-O-(2G-rhamnosyl)gentiobioside	33
C <sub>33</sub> H <sub>40</sub> O <sub>20</sub>	Camelliaside A	53
C <sub>33</sub> H <sub>40</sub> O <sub>21</sub>	a-Glucosylrutin	131
C <sub>33</sub> H <sub>42</sub> O <sub>18</sub>	Benzyl hepta-O-acetyl-b-D-lactoside	43
C <sub>33</sub> H <sub>42</sub> O <sub>19</sub>	Troloxerutin	281
	Naringin 4'-O-glucoside	227
C <sub>33</sub> H <sub>43</sub> NO <sub>17</sub>	Benzyl 2-acetamido-3,4-di-O-acetyl-6-O-(2,3,4,6-tetra-O-acetyl-a-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside	41
	Benzyl 2-acetamido-4,6-di-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactosyl)-2-deoxy-a-D-galactopyranoside	40
C <sub>33</sub> H <sub>44</sub> O <sub>17</sub>	(-)-Syringaresinol-4-O-b-D-apiofuranosyl-(1→2)-b-D-glucopyranoside	266
C <sub>33</sub> H <sub>46</sub> N <sub>2</sub> O <sub>16</sub>	Benzyl 4-O-(2-acetamido-2-deoxy-3,4,6-tri-O-acetyl-b-D-glucopyranosyl)-N-acetyl-a-D-muramic acid methyl ester	40
C <sub>33</sub> H <sub>50</sub> N <sub>3</sub> O <sub>25</sub> Na <sub>3</sub>	N-Acetylneuraminic acid trimer disodium salt	25
C <sub>33</sub> H <sub>57</sub> N <sub>5</sub> O <sub>14</sub> S	Galacto-N-biose-sp-biotin	101
C <sub>33</sub> H <sub>57</sub> N <sub>5</sub> O <sub>15</sub> S	N-Acetyl-D-lactosamine-sp-biotin	24
C <sub>34</sub> H <sub>39</sub> N <sub>3</sub> O <sub>15</sub>	Gal[2346Ac]b(1-3)GlcN3[46Bzd]-b-MP	100
	Gal[2346Ac]b(1-3)GalN3[46Bzd]-b-MP	100
C <sub>34</sub> H <sub>42</sub> O <sub>20</sub>	Typhanoside	282
C <sub>34</sub> H <sub>44</sub> O <sub>18</sub>	4-Methoxyphenyl 2,3,6-tri-O-acetyl-4-O-(2,4,6-tri-O-acetyl-3-O-allyl-b-D-galactopyranosyl)-b-D-glucopyranoside	208
C <sub>34</sub> H <sub>54</sub> N <sub>2</sub> O <sub>27</sub> Na <sub>2</sub>	Disialylactose	88
C <sub>34</sub> H <sub>57</sub> N <sub>7</sub> O <sub>21</sub>	LacDiNAc dimer ethylazide	163
C <sub>34</sub> H <sub>58</sub> N <sub>4</sub> O <sub>24</sub> S <sub>2</sub>	Mycothione	225
	Mycothiol disulfide - Stabilised with trifluoroacetic acid ammonium salt	225
C <sub>34</sub> H <sub>58</sub> N <sub>2</sub> O <sub>25</sub>	Blood group A pentasaccharide type II	46
	Blood Group A pentasaccharide type I	46
C <sub>34</sub> H <sub>58</sub> N <sub>2</sub> O <sub>26</sub>	Man-3b N-Glycan	191
	Man-3a N-Glycan	190
	Forsman antigen pentaose	94
	Biantennary N-linked core pentasaccharide	44
C <sub>34</sub> H <sub>62</sub> O <sub>21</sub>	Decyl 4-O-b-D-lactopyranosyl-b-D-lactopyranoside	71
C <sub>35</sub> H <sub>37</sub> N <sub>3</sub> O <sub>10</sub>	3-O-Acetyl-1,6-anhydro-2-azido-2',3'-di-O-benzyl-4',6'-O-benzylidene-2-deoxy-b-D-cellobiose	21
C <sub>35</sub> H <sub>40</sub> O <sub>16</sub>	Methyl 3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-4,6-O-benzylidene-2-O-benzoyl-a-D-glucopyranoside	218
C <sub>35</sub> H <sub>41</sub> NO <sub>11</sub>	Benzyl 3-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-O-benzyl-4,6-O-benzylidene-a-D-mannopyranoside	40
	3-O-(2-Acetamido-2-deoxy-D-glucopyranosyl)-1,2-di-O-benzyl-4,6-O-benzylidene-D-mannopyranoside	16
C <sub>35</sub> H <sub>46</sub> O <sub>17</sub>	4-Methoxyphenyl 2,6-di-O-acetyl-4-O-[2,4,6-tri-O-acetyl-3-O-allyl-b-D-galactopyranosyl]-3-O-allyl-b-D-glucopyranoside	203
C <sub>35</sub> H <sub>46</sub> O <sub>20</sub>	Echinacoside	90
C <sub>35</sub> H <sub>57</sub> NO <sub>24</sub> S	Mannotetraose squarate	196
C <sub>35</sub> H <sub>58</sub> O <sub>29</sub>	1,5-a-L-Arabinohexaose	34
C <sub>35</sub> H <sub>62</sub> O <sub>12</sub> Si <sub>2</sub>	3,2'-Di-O-acetyl-3',4'-O-carbonyl-6,6'-di-O-tert-butylidiphenylsilyl lactal	76
C <sub>36</sub> H <sub>43</sub> NO <sub>15</sub>	Benzyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-O-benzylidene-2-deoxy-a-D-glucopyranoside	41
	Benzyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-O-benzylidene-2-deoxy-a-D-glucopyranose	41
	Benzyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-O-benzylidene-2-deoxy-a-D-galactopyranose	41

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C<sub>40</sub>H<sub>67</sub>N<sub>5</sub>O<sub>26</sub>

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C <sub>36</sub> H <sub>43</sub> NO <sub>15</sub>	Benzyl 2-acetamido-2-deoxy-4,6-O-benzylidene-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranoside	39
	Benzyl 2-acetamido-4,6-O-benzylidene-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-a-D-glucopyranoside	39
C <sub>36</sub> H <sub>44</sub> O <sub>7</sub> Na <sub>6</sub>	Hexa-mannuronic acid sodium salt	151
	Hexa-guluronic acid sodium salt	150
C <sub>36</sub> H <sub>45</sub> NO <sub>15</sub>	2-Acetamido-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-1,6-di-O-benzyl-2-deoxy-a-D-glucopyranoside	20
C <sub>36</sub> H <sub>48</sub> O <sub>20</sub>	Cistanoside A	65
C <sub>36</sub> H <sub>50</sub> O <sub>25</sub>	4-O-Acetyl-3,6-di-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-D-mannopyranose	22
C <sub>36</sub> H <sub>54</sub> Br <sub>6</sub> O <sub>24</sub>	6-Bromo-6-deoxy-a-cyclodextrin	52
C <sub>36</sub> H <sub>54</sub> Cl <sub>6</sub> O <sub>24</sub>	6-Chloro-6-deoxy-a-cyclodextrin	63
C <sub>36</sub> H <sub>54</sub> I <sub>6</sub> O <sub>24</sub>	6-Iodo-6-deoxy-a-cyclodextrin	73
C <sub>36</sub> H <sub>55</sub> O <sub>37</sub> Na <sub>3</sub>	k-Carrageenan trisulfate trisodium salt	161
C <sub>36</sub> H <sub>56</sub> O <sub>28</sub>	Neogaroheptaose	228
C <sub>36</sub> H <sub>58</sub> N <sub>4</sub> O <sub>23</sub> S	N-Acetylneuraminy-(a2-3)-D-galactopyranosyl-(b1-3)-D-N-acetylgalactosaminyl serine-biotin	25
C <sub>36</sub> H <sub>59</sub> Na <sub>3</sub> O <sub>27</sub>	NeuAc a2-3Gal b1-3(NeuAc a2-6)GalNAc	231
	Disialyl-TF	89
C <sub>36</sub> H <sub>60</sub> O <sub>7</sub>	Ginsenoside Rk2	122
	Ginsenoside Rh3	121
C <sub>36</sub> H <sub>60</sub> O <sub>8</sub>	Ginsenoside Rk3	122
	Ginsenoside Rh4	121
C <sub>36</sub> H <sub>60</sub> O <sub>24</sub>	6-Deoxy-a-cyclodextrin	71
C <sub>36</sub> H <sub>60</sub> O <sub>24</sub> Se <sub>6</sub>	6-Deoxy-6-thio-a-cyclodextrin	74
C <sub>36</sub> H <sub>60</sub> O <sub>30</sub>	Cyclomaltohexaose	70
	a-Cyclodextrin dihydrogen phosphate sodium salt	67
C <sub>36</sub> H <sub>65</sub> Na <sub>3</sub> O <sub>57</sub> S <sub>9</sub> (NH <sub>4</sub> ) <sub>12</sub>	Hexasaccharide dp6	151
C <sub>36</sub> H <sub>62</sub> O <sub>8</sub>	20(s)-Ginsenoside Rh2	251
C <sub>36</sub> H <sub>62</sub> O <sub>9</sub>	Ginsenoside Rh1	121
C <sub>36</sub> H <sub>62</sub> O <sub>31</sub>	1,4-b-D-Mannohexaose	194
	6-a-D-Maltotriose-maltotriose	188
	a-Maltotetraosyl-a,a-trehalose	186
	Maltohexaose	183
	Laminarixhaose	173
	1,1,1,1-Kestohexose	162
	Isomaltohexaose	158
	Fructohexasaccharide	96
	D-Cellohexaose	58
C <sub>36</sub> H <sub>63</sub> N <sub>3</sub> O <sub>24</sub>	3'-Sialyl Lewis X b 1-O-n-pentylamine	258
C <sub>36</sub> H <sub>64</sub> O <sub>31</sub>	1,4-b-D-Cellohexaitol	58
C <sub>36</sub> H <sub>67</sub> NO <sub>17</sub>	Globotriaosylsphingosine	125
C <sub>36</sub> H <sub>68</sub> N <sub>6</sub> O <sub>24</sub> ·6HCl	6-Amino-6-deoxy-a-cyclodextrin hydrochloride	29
C <sub>36</sub> H <sub>68</sub> N <sub>6</sub> O <sub>25</sub> ·6HCl	Chitohexaose 6HCl	61
C <sub>37</sub> H <sub>39</sub> Na <sub>3</sub> O <sub>16</sub>	4-Methylumbelliferyl 2-azido-2-deoxy-3-O-(tetra-O-acetyl-b-D-galactopyranosyl)-4,6-O-benzylidene-a-D-galactopyranoside	219
C <sub>37</sub> H <sub>41</sub> Na <sub>3</sub> O <sub>16</sub> S	N-Acetyl-D-lactosamine ethyl fluorescein 5-thiourea	23
C <sub>37</sub> H <sub>52</sub> O <sub>23</sub>	3,6-Di-O-(3,4,6-tri-O-acetyl-b-D-mannopyranosylethylidene)-1,2-O-ethylidene-b-D-mannopyranose	89
C <sub>37</sub> H <sub>61</sub> N <sub>2</sub> O <sub>28</sub> Na	Sialyl Lewis X pentaose	258
C <sub>37</sub> H <sub>61</sub> N <sub>2</sub> O <sub>29</sub> Na	LS-tetrasaccharide a sodium salt	181
	GM1b-Oligosaccharide	138
	GM1a-Oligosaccharide	138
C <sub>37</sub> H <sub>62</sub> N <sub>2</sub> O <sub>28</sub>	Sialyl Lewis A pentaose	256
C <sub>37</sub> H <sub>62</sub> N <sub>2</sub> O <sub>29</sub>	3'-Sialyllactose-N-neotetraose	254
	LS-tetrasaccharide c	181
	LS-tetrasaccharide b	181
	LS-Tetrasaccharide a	181
	GM1-Pentasaccharide	138
C <sub>37</sub> H <sub>64</sub> N <sub>4</sub> O <sub>18</sub> S	Blood Group B trisaccharide, spacer-biotin conjugate	49
C <sub>38</sub> H <sub>48</sub> O <sub>19</sub>	Epimedin B	91
C <sub>38</sub> H <sub>51</sub> BrO <sub>25</sub>	2,3,6-Tri-O-acetyl-4-O-(2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-a-D-glucopyranosyl)-a-D-glucopyranosyl)-a-D-glucopyranosyl bromide	277

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C <sub>38</sub> H <sub>51</sub> BrO <sub>25</sub>	2,3,6-Tri-O-acetyl-4-O-(2,3,6-tri-O-acetyl-4-O-[(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-b-D-glucopyranosyl]-a-D-glucopyranosyl bromide	277
C <sub>38</sub> H <sub>52</sub> O <sub>25</sub>	2'-Fucosylactose peracetate	100
	4-O-Acetyl-3,6-di-O-(3,4,6-tri-O-acetyl-1,2-ethylidene-b-D-mannopyranosyl)-1,2-ethylidene-b-D-mannopyranose	22
	4-O-Acetyl-3,6-di-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-1,2-ethylidene-b-D-mannopyranose	22
C <sub>38</sub> H <sub>54</sub> O <sub>19</sub>	Crocin II	66
C <sub>38</sub> H <sub>60</sub> O <sub>17</sub>	Dulcoside A	90
C <sub>38</sub> H <sub>60</sub> O <sub>18</sub>	Stevioside - min 95%	260
	Stevioside - min 80%	260
	Rebaudioside G	247
	Rebaudioside B	246
C <sub>38</sub> H <sub>63</sub> N <sub>5</sub> O <sub>21</sub> S	Lewis Y-NHCOCH <sub>2</sub> NH-biotin	177
C <sub>38</sub> H <sub>65</sub> NO <sub>29</sub>	Lewis Y hexasaccharide	177
	Lacto-N-neodifucohexaose	168
	Lacto-N-difucohexaose IV	165
	Lacto-N-difucohexaose II	165
	Lacto-N-difucohexaose I	165
C <sub>38</sub> H <sub>65</sub> NO <sub>30</sub>	Globo-H	124
	Blood group B hexasaccharide type II	45
	Blood group B hexasaccharide type I	45
C <sub>38</sub> H <sub>65</sub> NO <sub>31</sub>	Man5GlcNAc	189
C <sub>38</sub> H <sub>71</sub> NO <sub>13</sub>	Lactosyl-b-1,1'-N-octanoyl-L-threo-sphingosine	171
C <sub>39</sub> H <sub>40</sub> O <sub>16</sub>	3,4,6-Tri-O-acetyl-2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)-D-galactopyranose	277
	2",3",4",4'-Tri-O-benzylfucosylactose	278
C <sub>39</sub> H <sub>50</sub> O <sub>19</sub>	Epimedin C	91
C <sub>39</sub> H <sub>50</sub> O <sub>20</sub>	Epimedin A	91
C <sub>39</sub> H <sub>58</sub> N <sub>2</sub> O <sub>16</sub>	8-Methoxycarbonyl-3-benzyl-3',4',6',6-tetra-O-acetyl-N,N'-diacetyl-b-chitobioside	198
C <sub>39</sub> H <sub>62</sub> O <sub>12</sub>	Polyphyllin C	243
C <sub>39</sub> H <sub>64</sub> O <sub>13</sub>	Timosaponin A-III	273
	Polyphyllin E	243
C <sub>39</sub> H <sub>64</sub> N <sub>4</sub> O <sub>29</sub>	N-Acetylneuraminy-(a2-3)-D-galactopyranosyl-(b1-3)-[N-acetylneuraminy-(a2-6)]-D-N-acetylgalactosaminyl serine	25
C <sub>39</sub> H <sub>65</sub> N <sub>5</sub> O <sub>21</sub> S	NeuAc-a-2,3-Gal-b-1,4-Glc-NHCO-(CH <sub>2</sub> ) <sub>5</sub> NH-biotin	231
C <sub>39</sub> H <sub>66</sub> N <sub>4</sub> O <sub>29</sub>	Glycyl-sialyllactose-N-tetraose a	136
C <sub>39</sub> H <sub>66</sub> N <sub>2</sub> O <sub>30</sub>	Man-3Xyl N-Glycan	197
C <sub>39</sub> H <sub>67</sub> N <sub>5</sub> O <sub>18</sub> S	Lewis X trisaccharide-sp-biotin	177
	Lewis A trisaccharide-sp-biotin	175
	Blood Group H type II trisaccharide-sp-biotin	51
	Blood Group A trisaccharide, spacer-biotin conjugate	49
C <sub>40</sub> H <sub>41</sub> NO <sub>15</sub>	2-O-(3,4,6-Tri-O-acetyl-2-deoxy-2-N-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-4,6-benzylidene-D-mannopyranose	276
C <sub>40</sub> H <sub>52</sub> N <sub>2</sub> O <sub>16</sub>	4-O-(2-Acetamido-2-deoxy-3,4,6-tri-O-acetyl-b-D-glucopyranosyl)-1,6-di-O-benzyl-2-deoxy-a-D-muramic acid methyl ester	17
C <sub>40</sub> H <sub>54</sub> O <sub>26</sub> S	1,2,3,6-Tetra-O-acetyl-4-O-(2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-a-D-glucopyranosyl)-a-D-glucopyranosyl)-b-D-thioglucofuranose	270
C <sub>40</sub> H <sub>54</sub> O <sub>27</sub>	D-Raffinose undecaacetate	245
	D-Maltotriose undecaacetate	187
	Laminaritriose hendecaacetate	173
	D-Celotriose undecaacetate	60
C <sub>40</sub> H <sub>55</sub> NO <sub>25</sub> S	1,2,3,6-Tetra-O-acetyl-4-O-[2,4,6-tri-O-acetyl-3-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)-b-D-galactopyranosyl]-b-D-thioglucofuranose	270
C <sub>40</sub> H <sub>55</sub> NO <sub>26</sub>	1,2,3,6-Tetra-O-acetyl-4-O-[2,4,6-tri-O-acetyl-3-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)-b-D-galactopyranosyl]-b-D-glucopyranose	270
C <sub>40</sub> H <sub>57</sub> N <sub>3</sub> O <sub>24</sub>	Chitotriose undecaacetate	63
C <sub>40</sub> H <sub>62</sub> O <sub>19</sub>	Sucrose acetoisobutyrate	262
C <sub>40</sub> H <sub>66</sub> O <sub>33</sub>	1,5-a-L-Arabinooctaose	35
C <sub>40</sub> H <sub>67</sub> N <sub>5</sub> O <sub>26</sub>	N,N',N'',N''',N''''-Pentaacetyl chitopentaose	240

Formula	Product Name	Page	Formula	Product Name	Page
C <sub>40</sub> H <sub>68</sub> N <sub>2</sub> O <sub>30</sub>	Man-3-F N-Glycan	189	C <sub>42</sub> H <sub>78</sub> N <sub>6</sub> O <sub>24</sub>	6-Aminomethyl-6-deoxy- $\alpha$ -cyclodextrin	30
	Blood group A hexasaccharide type II	45	C <sub>42</sub> H <sub>77</sub> N <sub>7</sub> O <sub>28</sub> ·7HCl	6-Amino-6-deoxy- $\beta$ -cyclodextrin hydrochloride	29
C <sub>40</sub> H <sub>68</sub> N <sub>2</sub> O <sub>31</sub>	Man-4 N-Glycan	191	C <sub>42</sub> H <sub>79</sub> N <sub>7</sub> O <sub>29</sub> ·7HCl	Chitoheptaose 7HCl	61
	p-Lacto-N-neohexaose	168	C <sub>43</sub> H <sub>51</sub> N <sub>10</sub> O <sub>16</sub>	4-Methoxyphenyl 2-acetamido-4-O-(2,3,4,6-tri-O-acetyl- $\beta$ -D-glucopyranosyl)-3,6-di-O-benzyl-2-deoxy- $\beta$ -D-glucopyranoside	200
	Lacto-N-neohexaose	168		Carboxymethyl- $\alpha$ -cyclodextrin sodium salt	55
	p-Lacto-N-hexaose	168	C <sub>43</sub> H <sub>64</sub> O <sub>37</sub> ·xNa	$\beta$ -Acetyl digoxin	22
	Lacto-N-hexaose	167	C <sub>43</sub> H <sub>66</sub> O <sub>15</sub>	a-Acetyl digoxin	22
C <sub>41</sub> H <sub>40</sub> Cl <sub>3</sub> NO <sub>16</sub>	3,4,6-Tri-O-acetyl-2-O-(2,3,4-tri-O-benzoyl- $\alpha$ -L-fucopyranosyl)-D-galactopyranosyl trichloroacetimidate	277	C <sub>43</sub> H <sub>66</sub> O <sub>32</sub> S	Mono-6-O-(p-toluenesulfonyl)- $\alpha$ -cyclodextrin	225
C <sub>41</sub> H <sub>42</sub> O <sub>17</sub>	2,3,4,6-Tetra-O-acetyl-1-O-(2,3,4-tri-O-benzoyl- $\alpha$ -L-fucopyranosyl)-D-galactopyranoside	271	C <sub>43</sub> H <sub>68</sub> O <sub>22</sub>	Rebaudioside F	247
	1,3,4,6-Tetra-O-acetyl-2-O-(2,3,4-tri-O-benzoyl- $\alpha$ -L-fucopyranosyl)- $\alpha$ -D-galactopyranose	270	C <sub>43</sub> H <sub>70</sub> N <sub>2</sub> O <sub>30</sub>	Globo-H- $\beta$ -N-acetyl propargyl	124
C <sub>41</sub> H <sub>47</sub> NO <sub>14</sub>	3-O-(2-Acetamido-3,4,6-tri-O-acetyl-2-deoxy-D-glucopyranosyl)-1,2-di-O-benzyl-4,6-O-benzylidene-D-mannopyranoside	20	C <sub>43</sub> H <sub>71</sub> N <sub>2</sub> O <sub>33</sub> Na	Fucosyl GM1 oligosaccharide	99
C <sub>41</sub> H <sub>48</sub> O <sub>14</sub>	1,3,4,6-Tetra-O-acetyl-2-(2,3,4-tri-O-benzyl- $\alpha$ -L-fucopyranosyl)- $\alpha$ -D-galactopyranose	271	C <sub>43</sub> H <sub>71</sub> N <sub>2</sub> O <sub>34</sub> Na	SSEA-4 hexaose	260
C <sub>41</sub> H <sub>50</sub> N <sub>2</sub> O <sub>12</sub>	2-Acetamido-4-O-(2-acetamido-3,6-di-O-acetyl-2,4-dideoxy- $\beta$ -D-glucopyranosyl)-1,3,6-tri-O-benzyl-2-deoxy- $\beta$ -D-glucopyranoside	10	C <sub>43</sub> H <sub>72</sub> N <sub>2</sub> O <sub>33</sub>	Sialyllacto-N-fucopentaose VI	254
C <sub>41</sub> H <sub>64</sub> O <sub>13</sub>	Momordin 1c	221		Sialyllacto-N-fucopentaose V	254
	Digoxin	83		Sialyllacto-N-fucopentaose II	254
C <sub>41</sub> H <sub>64</sub> O <sub>14</sub>	Digoxin	84		Sialyllacto-N-fucopentaose I	253
C <sub>41</sub> H <sub>68</sub> O <sub>14</sub>	Astragaloside III	37	C <sub>44</sub> H <sub>43</sub> NO <sub>15</sub> S	Sialylfucosyllacto-N-tetraose	253
C <sub>42</sub> (H) <sub>70-n</sub> O <sub>35</sub> (C <sub>3</sub> H <sub>7</sub> ) <sub>n</sub>	2-Hydroxypropyl- $\beta$ -cyclodextrin	156		1-S-Acetyl-2-acetamido-3-O-(2,3,4,6-tetra-O-benzoyl- $\beta$ -D-galactopyranosyl)-2-deoxy-D-thiogalactopyranose	20
C <sub>42</sub> H <sub>43</sub> NO <sub>17</sub>	Gal[2346Ac]b(1-3)GlcNPhth[46Bzd]-b-MP	101	C <sub>44</sub> H <sub>51</sub> NO <sub>22</sub>	Hepta-O-acetyl- $\beta$ -Lactosyl-N-Fmoc-L-serine	146
C <sub>42</sub> H <sub>54</sub> N <sub>6</sub> O <sub>24</sub>	6-Cyano-6-deoxy- $\alpha$ -cyclodextrin	67	C <sub>44</sub> H <sub>52</sub> N <sub>2</sub> O <sub>21</sub>	2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-galactopyranosyl)-4,6-di-O-acetyl-2-deoxy- $\alpha$ -D-galactopyranosyl-Fmoc-L-serine	19
C <sub>42</sub> H <sub>62</sub> O <sub>16</sub>	Glycyrrhizic acid	136	C <sub>44</sub> H <sub>64</sub> O <sub>24</sub>	Crocin I	66
C <sub>42</sub> H <sub>62</sub> O <sub>45</sub> Si <sub>4</sub> Na <sub>4</sub>	k-Carraheptaose tetrasodium salt	161	C <sub>44</sub> H <sub>66</sub> Na <sub>3</sub> O <sub>33</sub> Na <sub>4</sub>	N-Acetylneuraminic acid tetramer sodium salt	24
C <sub>42</sub> H <sub>63</sub> Br <sub>7</sub> O <sub>28</sub>	6-Bromo-6-deoxy- $\beta$ -cyclodextrin	52	C <sub>44</sub> H <sub>70</sub> O <sub>16</sub>	Polyphyllin D	243
C <sub>42</sub> H <sub>63</sub> Cl <sub>7</sub> O <sub>28</sub>	6-Chloro-6-deoxy- $\beta$ -cyclodextrin	63	C <sub>44</sub> H <sub>70</sub> O <sub>19</sub>	Lactose octaisobutyrate	170
C <sub>42</sub> H <sub>63</sub> I <sub>7</sub> O <sub>28</sub>	6-Iodo-6-deoxy- $\beta$ -cyclodextrin	73	C <sub>44</sub> H <sub>70</sub> O <sub>22</sub>	Rebaudioside C	246
C <sub>42</sub> H <sub>63</sub> N <sub>7</sub> O <sub>28</sub>	Heptakis-(6-azido-6-deoxy)- $\beta$ -cyclodextrin	147	C <sub>44</sub> H <sub>70</sub> O <sub>23</sub>	Rebaudioside E	246
C <sub>42</sub> H <sub>63</sub> Na <sub>7</sub> O <sub>56</sub> S <sub>7</sub>	6-O-Sulfo- $\beta$ -cyclodextrin sodium salt	165		Rebaudioside A	246
C <sub>42</sub> H <sub>65</sub> NO <sub>16</sub>	Glycyrrhizin monoammonium salt	236	C <sub>44</sub> H <sub>73</sub> N <sub>6</sub> O <sub>22</sub> S	Isorebaudioside A	160
C <sub>42</sub> H <sub>65</sub> Na <sub>3</sub> O <sub>34</sub>	Hyaluronic acid hexasaccharide ammonium salt	154	C <sub>44</sub> H <sub>74</sub> Na <sub>6</sub> O <sub>22</sub> S	6'- $\alpha$ -Sialyl-N-acetylglucosamine-sp-biotin	252
C <sub>42</sub> H <sub>66</sub> O <sub>16</sub>	Esculentoside A	92	C <sub>44</sub> H <sub>74</sub> Na <sub>6</sub> O <sub>22</sub> S	3'- $\alpha$ -Sialyl-N-acetylglucosamine-sp-biotin	252
C <sub>42</sub> H <sub>66</sub> O <sub>33</sub>	Agarheptaose	27	C <sub>44</sub> H <sub>75</sub> NO <sub>36</sub>	Man6GlcNAc(II)	190
C <sub>42</sub> H <sub>67</sub> Na <sub>3</sub> O <sub>32</sub> Na <sub>2</sub>	GD2-Oligosaccharide	238		Man6GlcNAc(I)	190
C <sub>42</sub> H <sub>68</sub> O <sub>13</sub>	Saikosaponin D	250	C <sub>44</sub> H <sub>82</sub> O <sub>13</sub>	Sucrose dipalmitate	262
	Saikosaponin B2	250	C <sub>45</sub> H <sub>53</sub> NO <sub>22</sub>	Hepta-O-acetyl- $\beta$ -Lactosyl-N-Fmoc-L-threonine	146
	Saikosaponin A	249	C <sub>45</sub> H <sub>54</sub> O <sub>10</sub> Si <sub>2</sub>	3',4'-O-Carbonyl-6,6'-di-O-tert-butylidiphenylsilyl lactal	54
C <sub>42</sub> H <sub>68</sub> N <sub>2</sub> O <sub>16</sub>	Diammonium glycyrrhizinate	78	C <sub>45</sub> H <sub>70</sub> Na <sub>3</sub> O <sub>35</sub> Na <sub>3</sub>	GT3-Oligosaccharide	239
C <sub>42</sub> H <sub>69</sub> F <sub>3</sub> O <sub>34</sub>	6-Deoxy-6-Fluorocyclomaltoheptaose	72	C <sub>45</sub> H <sub>72</sub> O <sub>16</sub>	Dioscin	87
C <sub>42</sub> H <sub>69</sub> Na <sub>3</sub> O <sub>34</sub>	6-Azido-6-deoxy- $\beta$ -cyclodextrin	37	C <sub>45</sub> H <sub>72</sub> O <sub>17</sub>	Gracillin	139
C <sub>42</sub> H <sub>70</sub> O <sub>12</sub>	Ginsenoside Rk1	122	C <sub>45</sub> H <sub>72</sub> O <sub>39</sub>	(2-Carboxyethyl)- $\alpha$ -cyclodextrin	54
	Ginsenoside Rg6	120	C <sub>45</sub> H <sub>73</sub> NO <sub>14</sub>	$\alpha$ -Chaonine	60
	Ginsenoside Rg5	120	C <sub>45</sub> H <sub>73</sub> NO <sub>15</sub>	$\alpha$ -Solanine	259
	20(Z)-Ginsenoside F4	118		$\alpha$ -Solamargine	259
C <sub>42</sub> H <sub>70</sub> O <sub>28</sub>	6-Deoxy- $\beta$ -cyclodextrin	71	C <sub>45</sub> H <sub>73</sub> NO <sub>16</sub>	Solasonine	259
C <sub>42</sub> H <sub>70</sub> O <sub>28</sub> S <sub>7</sub>	6-Deoxy-6-thio- $\beta$ -cyclodextrin	74	C <sub>42</sub> H <sub>70-n</sub> O <sub>35</sub> ·(C <sub>2</sub> H <sub>4</sub> COONa) <sub>n</sub>	(2-Carboxyethyl)- $\beta$ -cyclodextrin	54
C <sub>42</sub> H <sub>70</sub> O <sub>35</sub>	6-O- $\alpha$ -D-Glucosyl- $\alpha$ -cyclodextrin	131	C <sub>45</sub> H <sub>76</sub> N <sub>2</sub> O <sub>34</sub>	Man-3-Xyl-Fuc N-Glycan	197
	Cyclomaltoheptaose	70	C <sub>45</sub> H <sub>77</sub> N <sub>5</sub> O <sub>22</sub> S	Lewis Y tetrasaccharide-sp-biotin	178
	$\beta$ -Cyclodextrin dihydrogen phosphate, sodium salt	67		Lewis B tetrasaccharide-sp-biotin	176
C <sub>42</sub> H <sub>71</sub> N <sub>5</sub> O <sub>22</sub> S	6'-Sialyllactose-sp-biotin	255	C <sub>46</sub> H <sub>55</sub> NO <sub>27</sub>	1,2,3,6-Tetra-O-acetyl-4-O-[2,4,6-tri-O-acetyl-3-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido- $\beta$ -D-glucopyranosyl)- $\beta$ -D-galactopyranosyl]- $\beta$ -D-glucopyranose	270
	3'-Sialyllactose-sp-biotin	255	C <sub>46</sub> H <sub>72</sub> O <sub>17</sub>	Momordin 1e	220
C <sub>42</sub> H <sub>72</sub> O <sub>13</sub>	Ginsenoside Rg2	120	C <sub>46</sub> H <sub>78</sub> O <sub>18</sub>	Gypenoside I	139
	(20S)-Ginsenoside Rg3	121	C <sub>46</sub> H <sub>78</sub> N <sub>2</sub> O <sub>34</sub>	Lewis A heptasaccharide	174
	(20R)-Ginsenoside Rg3	121		$\alpha$ -Heptasaccharide	149
	20-(S)-Ginsenoside F2	118	C <sub>46</sub> H <sub>78</sub> N <sub>2</sub> O <sub>35</sub>	Monofucosyl-para-lacto-N-neohexaose IV	223
C <sub>42</sub> H <sub>72</sub> O <sub>14</sub>	Pseudoginsenoside FII	244		Monofucosyl-para-lacto-N-hexaose IV	223
	Ginsenoside Rg1	120		Monofucosyllacto-N-hexaose III	223
	Ginsenoside Rf	120		Monofucosyl-para-lacto-N-hexaose II	222
C <sub>42</sub> H <sub>72</sub> O <sub>15</sub>	Momordicoside A	220		Monofucosyllacto-N-hexaose II	222
C <sub>42</sub> H <sub>72</sub> O <sub>36</sub>	Maltoheptaose	183		Monofucosyl-para-lacto-N-hexaose I	222
	Laminariheptaose	173		Monofucosyllacto-N-hexaose I	222
	Isomaltoheptaose	158	C <sub>46</sub> H <sub>78</sub> N <sub>2</sub> O <sub>36</sub>	Man-5 N-Glycan	191
	Fructoheptasaccharide	96	C <sub>47</sub> H <sub>57</sub> NO <sub>19</sub>	4-Methoxyphenyl 6-O-(methyl 5-acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero- $\alpha$ -D-galacto-2-nulopyranosylonate)-2,3-di-O-benzyl- $\beta$ -D-galactopyranoside	207
C <sub>42</sub> H <sub>70</sub> O <sub>35</sub> ·xH <sub>2</sub> O	Cyclomaltoheptaose hydrate	70			
C <sub>42</sub> H <sub>72</sub> O <sub>36</sub>	D-Celloheptaose	58			
C <sub>42</sub> H <sub>74</sub> O <sub>30</sub> Si	6-Mono-tert-butylidimethylsilyl- $\alpha$ -cyclodextrin	221			

Formula	Product Name	Page	Formula	Product Name	Page
C <sub>47</sub> H <sub>59</sub> NO <sub>19</sub>	4-Methoxyphenyl 6-O-(methyl 5-acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-b-D-galacto-2-nonulopyranosylonate)-2,3-di-O-benzyl-b-D-galactopyranoside	207	C <sub>49</sub> H <sub>62</sub> N <sub>2</sub> O <sub>21</sub>	2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-di-O-acetyl-2-deoxy-a-D-galactopyranosyl-Fmoc-L-threonine tert-butyl ester	20
C <sub>47</sub> H <sub>72</sub> N <sub>4</sub> O <sub>32</sub> Na <sub>2</sub>	GD2-Oligosaccharide-b-(N-acetyl-propargyl)	239	C <sub>49</sub> H <sub>63</sub> N <sub>7</sub> O <sub>28</sub>	6-Cyano-6-deoxy-b-cyclodextrin	67
C <sub>47</sub> H <sub>74</sub> O <sub>18</sub>	Clinodiside D	66	C <sub>49</sub> H <sub>74</sub> O <sub>14</sub>	Avermectin B1	37
C <sub>47</sub> H <sub>80</sub> O <sub>18</sub>	Notoginsenoside R1	235	C <sub>49</sub> H <sub>74</sub> O <sub>42</sub> ·xNa	Carboxymethyl-b-cyclodextrin sodium salt	56
C <sub>47</sub> H <sub>80</sub> O <sub>19</sub>	Momordicoside B	220	C <sub>49</sub> H <sub>76</sub> O <sub>20</sub>	Lanatoside C	174
C <sub>48</sub> H <sub>54</sub> O <sub>15</sub>	3-O-(2,3,4,6-Tetra-O-benzyl-a-D-glucopyranosyl)-1,2,4,6-tetra-O-acetyl-b-D-glucopyranose	271	C <sub>49</sub> H <sub>76</sub> O <sub>37</sub> S	Mono-6-O-(p-toluenesulfonyl)-b-cyclodextrin	225
	6-O-(2,3,4,6-Tetra-O-acetyl-a-D-mannopyranosyl)-1,2,3,4-tetra-O-benzyl-a-D-mannopyranoside	269	C <sub>49</sub> H <sub>82</sub> SO <sub>42</sub>	6-Monomesyl-gamma-cyclodextrin	223
	Benzyl-6-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-2,3,4-tri-O-benzyl-a-D-mannopyranoside	43	C <sub>49</sub> H <sub>91</sub> N <sub>7</sub> O <sub>28</sub>	6-Aminomethyl-6-deoxy-b-cyclodextrin	30
C <sub>48</sub> H <sub>56</sub> Cl <sub>6</sub> NO <sub>20</sub>	Neu5Troc[1Me,4789Ac](a(2-3)Gal[26Bn]-b-MP	232	C <sub>50</sub> H <sub>54</sub> N <sub>2</sub> O <sub>26</sub>	3,4-Di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranose	77
C <sub>48</sub> H <sub>60</sub> N <sub>2</sub> O <sub>21</sub>	2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4,6-di-O-acetyl-2-deoxy-a-D-galactopyranosyl-Fmoc-L-serine tert-butyl ester	19	C <sub>50</sub> H <sub>58</sub> N <sub>4</sub> O <sub>18</sub>	3-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-2-azido-4,6-O-benzylidene-2-deoxy-a-D-galactopyranosyl-Fmoc threonine tert-butyl ester	268
C <sub>48</sub> H <sub>72</sub> O <sub>17</sub>	Saikosaponin C	250	C <sub>50</sub> H <sub>67</sub> BrO <sub>33</sub>	2,3,6-Tri-O-acetyl-4-O-[2,3,6-tri-O-acetyl-4-O-(2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-b-D-glucopyranosyl]-b-D-glucopyranosyl bromide	277
C <sub>48</sub> H <sub>72</sub> Br <sub>2</sub> O <sub>32</sub>	6-bromo-6-deoxy-gamma-cyclodextrin	52	C <sub>50</sub> H <sub>74</sub> O <sub>40</sub>	Succinyl-a-cyclodextrin	261
C <sub>48</sub> H <sub>72</sub> Cl <sub>6</sub> O <sub>32</sub>	6-Chloro-6-deoxy-gamma-cyclodextrin	63	C <sub>50</sub> H <sub>80</sub> O <sub>27</sub>	Rebaudioside H	246
C <sub>48</sub> H <sub>72</sub> I <sub>6</sub> O <sub>32</sub>	6-deoxy-6-iodo-gamma-cyclodextrin	73	C <sub>50</sub> H <sub>80</sub> O <sub>28</sub>	Rebaudioside I	247
C <sub>48</sub> H <sub>72</sub> O <sub>36</sub>	Monoacetyl-a-cyclodextrin	221		Rebaudioside D	246
C <sub>48</sub> H <sub>72</sub> O <sub>49</sub> S <sub>4</sub> Na <sub>4</sub>	k-Carraigalactotetra sulfate tetrasodium salt	161	C <sub>50</sub> H <sub>83</sub> NO <sub>21</sub>	Tomatine	273
C <sub>48</sub> H <sub>74</sub> O <sub>37</sub>	Neogargarctoase	228	C <sub>50</sub> H <sub>83</sub> N <sub>5</sub> O <sub>35</sub> S	GM1-Pentasaccharide labelled by biotin	138
C <sub>48</sub> H <sub>76</sub> O <sub>19</sub>	Ginsenoside Ro	122	C <sub>50</sub> H <sub>84</sub> N <sub>6</sub> O <sub>26</sub> S	3'-Sialyl Lewis X-sp-biotin	258
C <sub>48</sub> H <sub>77</sub> N <sub>3</sub> O <sub>37</sub> Na <sub>2</sub>	GD1b-Oligosaccharide	238		3'-Sialyl Lewis A-sp-biotin	256
C <sub>48</sub> H <sub>78</sub> O <sub>19</sub>	Clinodiside A	65		3'-Sialyl Lewis A-PAA-biotin	256
	Asiaticoside	36	C <sub>50</sub> H <sub>84</sub> N <sub>4</sub> O <sub>36</sub>	NGA2 N-Glycan	233
C <sub>48</sub> H <sub>78</sub> O <sub>20</sub>	Clinopodiside G	66	C <sub>51</sub> H <sub>58</sub> N <sub>2</sub> O <sub>18</sub>	8-Methoxycarbonyloctyl-3-O-benzyl-2,2'-dideoxy-2,2'-diphthalimido-3',4',6-tri-O-acetyl-b-cellobiose	199
	Asiaticoside A	36	C <sub>51</sub> H <sub>58</sub> N <sub>2</sub> O <sub>19</sub>	O-[2-Acetamido-4,6-O-benzylidene-2-deoxy-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-a-D-galactopyranosyl]-N-Fmoc-L-threonine allyl ester	11
C <sub>48</sub> H <sub>79</sub> N <sub>3</sub> O <sub>37</sub>	GD1a-Oligosaccharide	238	C <sub>51</sub> H <sub>59</sub> NO <sub>27</sub>	4-Methoxyphenyl 2,3,6-tri-O-acetyl-4-O-[2,4,6-tri-O-acetyl-3-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-b-D-galactopyranosyl]-b-D-glucopyranoside	208
	Disialyllacto-N-tetraose	89		4-Methoxyphenyl 2,3,6-tri-O-acetyl-4-O-[2,4,6-tri-O-acetyl-3-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-b-D-galactopyranosyl]-b-D-glucopyranoside	208
C <sub>48</sub> H <sub>80</sub> N <sub>6</sub> O <sub>31</sub>	N,N',N'',N''',N''''-Hexaacetylchitohexaose	149	C <sub>51</sub> H <sub>63</sub> Na <sub>3</sub> O <sub>24</sub>	2-Acetamido-3,4-di-O-acetyl-6-O-[a-2-(4,7,8,9-tetra-O-acetyl-N-acetyl-D-neuraminic acid methyl ester)]-2-deoxy-a-D-galactopyranosyl	18
C <sub>48</sub> H <sub>80</sub> O <sub>32</sub>	6-Deoxy-gamma-cyclodextrin	72	C <sub>51</sub> H <sub>69</sub> NO <sub>31</sub>	Acarbose tridecaacetate	9
C <sub>48</sub> H <sub>80</sub> O <sub>32</sub> S <sub>8</sub>	6-deoxy-6-mercapto-γ-cyclodextrin	73	C <sub>51</sub> H <sub>80</sub> O <sub>18</sub>	Ziziphin	286
C <sub>48</sub> H <sub>80</sub> O <sub>40</sub>	6-O-a-D-Glucosyl-b-cyclodextrin	131	C <sub>51</sub> H <sub>82</sub> O <sub>21</sub>	Pseudoprotodioscin	244
	gamma-Cyclodextrin dihydrogen phosphate sodium salt	67		Chonglou Saponin VII	65
	gamma-Cyclodextrin	67	C <sub>51</sub> H <sub>84</sub> O <sub>15</sub>	Digalactosyldiacylglycerol - 10mg/ml in Chloroform-Methanol	83
C <sub>48</sub> H <sub>81</sub> NO <sub>39</sub>	6-Monodeoxy-6-monoamino-γ-cyclodextrin	221	C <sub>51</sub> H <sub>84</sub> O <sub>22</sub>	Protodioscin	244
C <sub>48</sub> H <sub>82</sub> O <sub>18</sub>	Gypenoside XVII	140	C <sub>52</sub> H <sub>54</sub> Cl <sub>3</sub> N <sub>3</sub> O <sub>26</sub>	3,4-Di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranosyl trichloroacetimidate	77
	Ginsenoside Re	119	C <sub>52</sub> H <sub>57</sub> NO <sub>17</sub>	4-Methoxyphenyl 2-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-a-D-glucopyranosyl)-3,4-di-O-benzyl-6-O-pivaloy-a-D-mannopyranoside	208
	Ginsenoside Rd	119	C <sub>52</sub> H <sub>70</sub> O <sub>34</sub> S	1,2,3,6-Tetra-O-acetyl-4-O-(2,3,6-tri-O-acetyl-4-O-[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranosyl]-b-D-glucopyranosyl)-b-D-thioglucopyranose	270
C <sub>48</sub> H <sub>82</sub> O <sub>19</sub>	Mogroside III A1	220	C <sub>52</sub> H <sub>70</sub> O <sub>35</sub>	6-O-(a-D-Maltotriosyl)-D-glucopyranose tetradecaacetate	188
	Mogroside III	219		6-a-D-Glucopyranosylmaltotriose tetradecaacetate	130
	Gypenoside XLVI	140		D-Cellotetraose tetradecaacetate	59
C <sub>48</sub> H <sub>82</sub> O <sub>41</sub>	Maltooctaose	184			
	Fructoocentasaccharide	96			
	Cellooctaose	58			
C <sub>48</sub> H <sub>84</sub> O <sub>30</sub>	3,6-Dimethyl-a-cyclodextrin	87			
	2,6-Dimethyl-a-cyclodextrin	86			
	2,3-Dimethyl-a-cyclodextrin	85			
C <sub>48</sub> H <sub>88</sub> Na <sub>3</sub> O <sub>32</sub> ·8HCl	6-Amino-6-deoxy-gamma-cyclodextrin hydrochloride	29			
C <sub>48</sub> H <sub>90</sub> O <sub>13</sub>	Sucrose distearate - 30% monostearate	262			
C <sub>48</sub> H <sub>90</sub> Na <sub>3</sub> O <sub>33</sub> ·8HCl	Chitooctaose 8HCl	61			
C <sub>49</sub> H <sub>51</sub> NO <sub>11</sub>	Methyl 3-O-benzyl-6-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside	213			
C <sub>49</sub> H <sub>53</sub> NO <sub>10</sub>	Benzyl 2-acetamido-3-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-4,6-O-benzylidene-2-deoxy-a-D-glucopyranoside	42			
C <sub>49</sub> H <sub>55</sub> NO <sub>20</sub>	N-Diphenylmethylene-O-(2,3,6,2',3',4',6'-hepta-O-acetyl-b-D-lactosyl)-L-serine, benzyl ester	88			
C <sub>49</sub> H <sub>56</sub> Na <sub>4</sub> O <sub>18</sub>	3-O-(2,3,4,6-Tetra-O-acetyl-b-D-galactopyranosyl)-2-azido-4,6-O-benzylidene-2-deoxy-a-D-galactopyranosyl-Fmoc serine tert-butyl ester	268			
C <sub>49</sub> H <sub>61</sub> NO <sub>15</sub>	Lewis A trisaccharide methyl glycoside tetrabenzylether	175			

Formula	Product Name	Page	Formula	Product Name	Page
C <sub>52</sub> H <sub>71</sub> NO <sub>34</sub>	2-Acetamido-4-O-[2,4-di-O-acetyl-3,6-di-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-b-D-glucopyranosyl]-1,3,6-tri-O-acetyl-2-deoxy-b-D-glucopyranose	18	C <sub>55</sub> H <sub>86</sub> NaO <sub>24</sub>	Aescin monosodium salt	26
C <sub>52</sub> H <sub>74</sub> N <sub>4</sub> O <sub>31</sub>	Chitotetraose tetradecaacetate	62	C <sub>55</sub> H <sub>90</sub> NeO <sub>24</sub> ·H <sub>3</sub> N	GM3-Ganglioside labelled by NBD	137
C <sub>52</sub> H <sub>82</sub> O <sub>22</sub>	Momordin 2e	221	C <sub>55</sub> H <sub>97</sub> N <sub>3</sub> O <sub>30</sub> ·xNa	GM1-Lyso-ganglioside	137
C <sub>52</sub> H <sub>84</sub> O <sub>21</sub>	Jujuboside B	160	C <sub>55</sub> H <sub>104</sub> N <sub>8</sub> O <sub>32</sub>	6-aminomethyl-6-deoxy-gamma-cyclodextrin	30
C <sub>58</sub> H <sub>80</sub> nO <sub>40</sub> ·(C <sub>4</sub> H <sub>5</sub> O <sub>3</sub> ) <sub>n</sub>	Succinyl-gamma-cyclodextrin	261	C <sub>58</sub> H <sub>59</sub> NO <sub>12</sub>	2-Acetamido-4-O-(2-O-benzoyl-3,4,6-tri-O-benzyl-b-D-galactopyranosyl)-1,6-di-O-benzyl-2-deoxy-b-D-glucopyranoside	11
C <sub>52</sub> H <sub>86</sub> O <sub>21</sub>	Gypenoside XLIX	140	C <sub>58</sub> H <sub>61</sub> N <sub>3</sub> O <sub>13</sub> SSi	Triisopropylsilyl 2-azido-3-O-(2,3,4,6-tetra-O-benzylidene-2-deoxy-a-D-thiogalactopyranoside)-4,6-O-benzylidene-2-deoxy-a-D-thiogalactopyranoside	280
C <sub>52</sub> H <sub>86</sub> O <sub>22</sub>	Methyl protodioscin	218	C <sub>58</sub> H <sub>61</sub> NO <sub>23</sub>	4-Methoxyphenyl 2,4-di-O-benzoyl-3-O-benzyl-6-O-(methyl 5-(acetoxyacetamido)-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-alpha-D-galacto-2-nonulopyranosylate)-beta-D-galactopyranoside	204
C <sub>52</sub> H <sub>88</sub> N <sub>2</sub> O <sub>39</sub>	Difucosyl-lacto-N-neohexaose I	82	C <sub>58</sub> H <sub>72</sub> NaO <sub>32</sub>	6-Cyano-6-deoxy-gamma-cyclodextrin	67
	Difucosyl-lacto-N-neohexaose 1	82	C <sub>58</sub> H <sub>86</sub> N <sub>4</sub> O <sub>43</sub> Na <sub>4</sub>	GQ3-Oligosaccharide	139
	Difucosyl-para-lacto-N-hexaose II	82	C <sub>58</sub> H <sub>86</sub> N <sub>4</sub> O <sub>45</sub>	Hyaluronic acid octasaccharide ammonium salt	154
	Difucosyl-lacto-N-hexaose (c)	82	C <sub>58</sub> H <sub>90</sub> O <sub>32</sub>	Rebaudioside N	247
	Difucosyl-lacto-N-hexaose (b)	81	C <sub>58</sub> H <sub>90</sub> O <sub>33</sub>	Rebaudioside M	247
	Difucosyl-lacto-N-hexaose (a)	81	C <sub>58</sub> H <sub>92</sub> O <sub>29</sub>	Digitonin	83
	Difucosyl-lacto-N-hexaose	81	C <sub>58</sub> H <sub>93</sub> N <sub>7</sub> O <sub>36</sub>	N,N',N'',N''',N''''-Heptaacetylchitoheptaose	145
C <sub>52</sub> H <sub>88</sub> N <sub>2</sub> O <sub>41</sub>	Man-6 N-Glycan	191	C <sub>58</sub> H <sub>94</sub> N <sub>4</sub> O <sub>40</sub>	NGA2F N-Glycan	232
C <sub>53</sub> H <sub>49</sub> NO <sub>17</sub> S	Acetyl 2-acetamido-4-O-acetyl-6-O-benzoyl-2-deoxy-3-O-(2,3,4,6-tetra-O-benzoyl-b-D-galactopyranosyl)-a-D-thiogalactopyranoside	20	C <sub>58</sub> H <sub>94</sub> N <sub>4</sub> O <sub>41</sub>	G-NGA2 N-Glycan	139
C <sub>53</sub> H <sub>50</sub> N <sub>2</sub> O <sub>14</sub>	1,3,6-Tri-O-benzyl-4-O-(3,6-di-O-acetyl-2,4-dideoxy-2-phthalimido-b-D-glucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside	278	C <sub>58</sub> H <sub>95</sub> N <sub>7</sub> O <sub>26</sub> S	3'-Sialyl Lewis X- biotin	257
C <sub>53</sub> H <sub>82</sub> O <sub>36</sub> S <sub>4</sub>	Aescin polysulphate sodium salt	27	C <sub>58</sub> H <sub>98</sub> O <sub>35</sub>	Methyl-b-cyclodextrin	213
C <sub>53</sub> H <sub>83</sub> N <sub>4</sub> O <sub>40</sub> Na <sub>5</sub>	GT2-Oligosaccharide	239		2,6-Dimethyl-b-cyclodextrin - Technical	86
C <sub>53</sub> H <sub>90</sub> O <sub>22</sub>	Ginsenoside Rc	119		2,6-Dimethyl-b-cyclodextrin	86
	Ginsenoside Rb3	119		2,3-Dimethyl-b-cyclodextrin	86
	Ginsenoside Rb2	118	C <sub>58</sub> H <sub>98</sub> O <sub>56</sub> S <sub>7</sub>	2,3-Dimethyl-cyclodextrin-6-hydrogen sulfate, sodium salt	87
C <sub>53</sub> H <sub>91</sub> N <sub>2</sub> O <sub>38</sub>	Difucosyl-para-lacto-N-neohexaose	82	C <sub>58</sub> H <sub>102</sub> N <sub>2</sub> O <sub>23</sub>	Globoside	125
	Difucosyl-para-lacto-N-hexaose I	82	C <sub>58</sub> H <sub>104</sub> N <sub>2</sub> O <sub>18</sub>	GA2-Ganglioside	100
C <sub>54</sub> H <sub>55</sub> NO <sub>16</sub>	4-Methoxyphenyl 2-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-a-D-glucopyranosyl)-3,4,6-tri-O-benzyl-a-D-mannopyranoside	208	C <sub>58</sub> H <sub>106</sub> O <sub>13</sub>	Trehalose-6,6'-dibehenate	274
	GlcNPhth[346Ac]b(1-3)Gal[246Bn]-b-MP	124	C <sub>57</sub> H <sub>106</sub> N <sub>2</sub> O <sub>17</sub> ·xNa	GM4-Ganglioside	137
C <sub>54</sub> H <sub>56</sub> O <sub>11</sub>	Benzyl 3-O-(2,3,4,6-tetra-O-benzyl-a-D-galactopyranosyl)-4,6-O-benzylidene-D-galactopyranose	44	C <sub>58</sub> H <sub>54</sub> N <sub>2</sub> O <sub>15</sub>	4-Methoxyphenyl 4-O-(4-O-acetyl-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	200
	Benzyl 2-O-(2,3,4,6-tetra-O-benzyl-a-D-galactopyranosyl)-4,6-O-benzylidene-D-galactopyranose	43	C <sub>58</sub> H <sub>59</sub> NO <sub>13</sub>	Methoxyphenyl 3-O-(3-O-allyl-2,4,6-tri-O-benzyl-b-D-galactopyranosyl)-6-O-benzyl-2-deoxy-2-N-phthalimido-b-D-glucopyranoside	202
C <sub>54</sub> H <sub>57</sub> NO <sub>22</sub>	Neu5Ac[1Me,4789Ac]a(2-3)Gal[246Bz]-b-MP	231	C <sub>58</sub> H <sub>94</sub> O <sub>26</sub>	Jujuboside A	160
C <sub>54</sub> H <sub>58</sub> O <sub>12</sub>	4-Methoxyphenyl 2,3,6-tri-O-benzyl-4-O-(2,6-di-O-benzyl-b-D-galactopyranosyl)-b-D-glucopyranoside	209	C <sub>58</sub> H <sub>97</sub> N <sub>5</sub> O <sub>41</sub>	NGA3 N-Glycan	233
	4-Methoxyphenyl 2,3,6-tri-O-benzyl-4-O-(2,3-di-O-benzyl-b-D-galactopyranosyl)-b-D-glucopyranoside	209		NGA2B N-Glycan	233
C <sub>54</sub> H <sub>59</sub> NO <sub>21</sub>	4-Methoxyphenyl 2,4-di-O-benzoyl-3-O-benzyl-6-O-(methyl 5-acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-alpha-D-galacto-2-nonulopyranosylate)-beta-D-galactopyranoside	204	C <sub>58</sub> H <sub>98</sub> N <sub>2</sub> O <sub>43</sub>	Trifucosyl-p-lacto-N-hexaose	279
	k-Carranonaose pentasodium salt	161	C <sub>58</sub> H <sub>98</sub> N <sub>2</sub> O <sub>46</sub>	Man-7D1 N-Glycan	191
C <sub>54</sub> H <sub>79</sub> O <sub>57</sub> S <sub>9</sub> Na <sub>5</sub>	Agaronaose	27		Man-7 N-Glycan	191
C <sub>54</sub> H <sub>84</sub> O <sub>42</sub>	Agaronaose	27	C <sub>59</sub> H <sub>67</sub> NO <sub>15</sub> Si	4-Methoxyphenyl 4-O-(4,6-O-benzylidene-3-O-tert-butylidimethylsilyl-2-O-levulinoyl-b-D-glucopyranosyl)-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	202
C <sub>54</sub> H <sub>86</sub> O <sub>46</sub> ·xNa	Carboxymethyl-gamma-cyclodextrin sodium salt	56	C <sub>59</sub> H <sub>93</sub> N <sub>4</sub> O <sub>45</sub> Na <sub>3</sub>	GT1a-Oligosaccharide	238
C <sub>54</sub> H <sub>90</sub> O <sub>45</sub>	6-O-a-Maltosyl-b-cyclodextrin	185		GT1c-Oligosaccharide	66
C <sub>54</sub> H <sub>91</sub> N <sub>3</sub> O <sub>41</sub>	Lacto-N-neoactose	168	C <sub>59</sub> H <sub>96</sub> O <sub>26</sub>	Hederacoside C	140
	iso-Lacto-N-neoactose	157	C <sub>59</sub> H <sub>98</sub> N <sub>4</sub> O <sub>45</sub>	GT1b-Oligosaccharide	238
C <sub>54</sub> H <sub>92</sub> O <sub>23</sub>	Ginsenoside Rb1	118	C <sub>59</sub> H <sub>111</sub> N <sub>3</sub> O <sub>21</sub> ·xNa	GM3-Ganglioside	137
C <sub>54</sub> H <sub>92</sub> O <sub>24</sub>	Siamenoside I	258	C <sub>60</sub> H <sub>62</sub> N <sub>2</sub> O <sub>24</sub>	4,6-Di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido b-D-glucopyranosyl)-3,6-di-O-benzyl-a-D-mannopyranose	89
	Mogroside VI	220	C <sub>60</sub> H <sub>84</sub> O <sub>42</sub>	3,6-Di-O-acetyl-a-cyclodextrin	77
	Mogroside IVa	220		2,3-Di-O-acetyl-a-cyclodextrin	76
	Mogroside IV	220	C <sub>60</sub> H <sub>84</sub> O <sub>72</sub> S <sub>10</sub> Na <sub>10</sub>	i-Carradecaitoldecasulfate decasodium salt	156
C <sub>54</sub> H <sub>92</sub> O <sub>46</sub>	Maltonaose	184	C <sub>60</sub> H <sub>89</sub> O <sub>81</sub> S <sub>5</sub> Na <sub>5</sub>	k-Carradecaitolpentasulfate pentasodium salt	161
	Fructononasaccharide	96	C <sub>60</sub> H <sub>92</sub> O <sub>46</sub>	Neogargarodecose	228
C <sub>54</sub> H <sub>94</sub> O <sub>40</sub> Si	6-Mono-tert-butylidimethylsilyl-y-cyclodextrin	221	C <sub>60</sub> H <sub>100</sub> O <sub>50</sub>	epsilonin-Cyclodextrin	91
C <sub>54</sub> H <sub>96</sub> O <sub>30</sub>	Hexakis(2,3,6-tri-O-methyl)cylomatohexaose	151	C <sub>60</sub> H <sub>101</sub> N <sub>3</sub> O <sub>45</sub>	Monofucosyl (1-3)-iso-lacto-N-octaose	222
C <sub>55</sub> H <sub>65</sub> NO <sub>15</sub>	2-Acetamido-1,6-di-O-benzyl-3-O-(2,3,4-tri-O-benzyl-b-L-fucopyranosyl)-2-deoxy-4-O-(b-D-galactopyranosyl)-a-D-glucopyranoside	18	C <sub>60</sub> H <sub>102</sub> O <sub>29</sub>	Mogroside V	220
	N-Acetylneuraminic acid pentamer disodium salt	24	C <sub>60</sub> H <sub>102</sub> O <sub>51</sub>	Maltodecaose	182
C <sub>55</sub> H <sub>82</sub> N <sub>2</sub> O <sub>41</sub> Na <sub>5</sub>	b-Aescin	26		Fructodecasaccharide	95
C <sub>55</sub> H <sub>86</sub> O <sub>24</sub>	Aescin	26	C <sub>60</sub> H <sub>113</sub> NO <sub>18</sub>	Globotriaosylceramide	125
	Aescin	26	C <sub>60</sub> H <sub>112</sub> N <sub>10</sub> O <sub>41</sub> ·10HCl	Chitodecaose 10HCl	61
	Aescin	26	C <sub>61</sub> H <sub>50</sub> O <sub>18</sub>	2,3,4,6,3',4',6'-Hepta-O-benzylsucrose	147

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C<sub>73</sub>H<sub>131</sub>N<sub>3</sub>O<sub>31</sub>·xNa

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C <sub>61</sub> H <sub>50</sub> O <sub>18</sub>	2,3,6,2',3',4',6'-Hepta-O-benzoyl-D-lactose	147
C <sub>61</sub> H <sub>58</sub> N <sub>2</sub> O <sub>16</sub>	4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-4-O-levulinoyl-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	205
C <sub>61</sub> H <sub>62</sub> O <sub>11</sub>	1,2,3,6-Tetra-O-benzyl-4-O-(2,3-di-O-benzyl-4,6-O-benzylidene-a-D-mannopyranosyl)-b-D-glucopyranoside	271
C <sub>61</sub> H <sub>64</sub> O <sub>11</sub>	1,2,3-Tris-O-benzyl-4-O-(2,3,4,6-tetra-O-benzyl-a-D-galactopyranosyl)-b-D-galactopyranoside	278
	Benzyl 4-O-(2,3,4,6-tetra-O-benzyl-a-D-galactopyranosyl)-2,3-di-O-benzyl-b-D-galactopyranoside	44
C <sub>61</sub> H <sub>64</sub> O <sub>12</sub>	4-Methoxyphenyl 4-O-(2,4,6-tri-O-benzyl-b-D-galactopyranosyl)-2,3,6-tri-O-benzyl-b-D-glucopyranoside	209
	4-Methoxyphenyl 4-O-(2,3,6-tri-O-benzyl-b-D-galactopyranosyl)-2,3,6-tri-O-benzyl-b-D-glucopyranoside	209
C <sub>62</sub> H <sub>62</sub> Cl <sub>3</sub> N <sub>3</sub> O <sub>24</sub>	3,4-Di-O-benzyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranosyl trichloroacetimidate	79
C <sub>62</sub> H <sub>65</sub> NO <sub>22</sub>	4-Methoxyphenyl 4-O-[4,6-O-benzylidene-3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-b-D-glucopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	203
C <sub>62</sub> H <sub>100</sub> O <sub>37</sub>	Rebaudioside O	247
C <sub>62</sub> H <sub>102</sub> N <sub>4</sub> O <sub>47</sub>	Disialyllactose-N-hexaose I	88
C <sub>62</sub> H <sub>104</sub> N <sub>4</sub> O <sub>45</sub>	FA2G1 N-Glycan	93
C <sub>62</sub> H <sub>104</sub> N <sub>4</sub> O <sub>46</sub>	NA2 N-Glycan	226
	Hybrid N-Glycan	155
	G-NGA2F N-Glycan	139
C <sub>62</sub> H <sub>114</sub> N <sub>2</sub> O <sub>23</sub>	Neolactotetraosylceramide	229
C <sub>63</sub> H <sub>58</sub> N <sub>2</sub> O <sub>14</sub>	4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	206
C <sub>63</sub> H <sub>98</sub> O <sub>29</sub>	Tubeimoside	282
C <sub>63</sub> H <sub>107</sub> N <sub>11</sub> O <sub>29</sub>	APF Sialoglycopeptide ammonium salt	33
C <sub>63</sub> H <sub>112</sub> O <sub>35</sub>	Heptakis(2,3,6-tri-O-methyl)cyclomaltoheptaose	148
C <sub>64</sub> H <sub>60</sub> N <sub>2</sub> O <sub>15</sub>	4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-2-deoxy-6-O-(4-methoxybenzyl)-2-phthalimido-b-D-glucopyranoside	205
C <sub>64</sub> H <sub>69</sub> NO <sub>23</sub>	4-Methoxyphenyl 4-O-[2-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-4-O-benzyl-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	202
C <sub>64</sub> H <sub>96</sub> O <sub>43</sub>	D-Cellobiose heptadecaacetate	59
C <sub>64</sub> H <sub>107</sub> N <sub>5</sub> O <sub>45</sub>	NGA3F N-Glycan	233
	NGA2FB N-Glycan	232
C <sub>64</sub> H <sub>108</sub> N <sub>2</sub> O <sub>51</sub>	Man-8D1D3 N-Glycan	192
	Man-8 N-Glycan	192
C <sub>64</sub> H <sub>112</sub> O <sub>32</sub>	2,3-dimethyl-6-deoxy-gamma-cyclodextrin	87
C <sub>64</sub> H <sub>112</sub> O <sub>40</sub>	2,6-dimethyl-gamma-cyclodextrin	86
C <sub>64</sub> H <sub>120</sub> N <sub>6</sub> O <sub>32</sub>	2,3-Dimethyl-gamma-cyclodextrin	86
	2,3-Dimethyl-6-amino-6-deoxy-gamma-cyclodextrin	85
C <sub>65</sub> H <sub>60</sub> N <sub>2</sub> O <sub>15</sub>	4-Methoxyphenyl 4-O-(4-O-acetyl-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	200
C <sub>65</sub> H <sub>70</sub> N <sub>2</sub> O <sub>24</sub>	4-Pentenyl 2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido b-D-glucopyranosyl)-3,6-di-O-benzyl-a-D-mannopyranoside	241
C <sub>65</sub> H <sub>106</sub> N <sub>10</sub> O <sub>37</sub> ·2Na	GD2-Oligosaccharide-desthiobiotin	239
C <sub>65</sub> H <sub>110</sub> N <sub>10</sub> O <sub>35</sub> ·2Na	GD2-Oligosaccharide-sp-biotin	239
C <sub>66</sub> H <sub>71</sub> NO <sub>24</sub>	4-Methoxyphenyl 4-O-[2,6-di-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-4-O-benzyl-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	203
C <sub>66</sub> H <sub>96</sub> N <sub>6</sub> O <sub>49</sub> Na <sub>6</sub>	N-Acetylneuraminic acid hexamer disodium salt	24
C <sub>66</sub> H <sub>102</sub> O <sub>5</sub>	Agarundecaose	27
C <sub>66</sub> H <sub>110</sub> N <sub>6</sub> O <sub>46</sub>	NGA3B N-Glycan	233

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C <sub>68</sub> H <sub>110</sub> O <sub>55</sub>	zeta-Cyclodextrin	285
C <sub>67</sub> H <sub>68</sub> N <sub>2</sub> O <sub>24</sub>	4,6-Di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido b-D-glucopyranosyl)-1,3,6-tri-O-benzyl-a-D-mannopyranoside	89
C <sub>67</sub> H <sub>68</sub> N <sub>2</sub> O <sub>25</sub>	4-Methoxyphenyl 3,4-di-O-benzyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-a-D-mannopyranoside	206
C <sub>67</sub> H <sub>71</sub> NO <sub>24</sub>	4-Methoxyphenyl 4-O-[3-O-(2,3,4,6-O-acetyl-a-D-mannopyranosyl)-4,6-O-benzylidene-2-O-levulinoyl-b-D-glucopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	201
C <sub>67</sub> H <sub>72</sub> N <sub>2</sub> O <sub>16</sub> Si	4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-4-O-levulinoyl-2-phthalimido-b-D-glucopyranosyl)-6-O-tert-butylidimethylsilyl-3-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	205
	4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-4-O-levulinoyl-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-6-O-tert-butylidimethylsilyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	204
C <sub>67</sub> H <sub>121</sub> N <sub>3</sub> O <sub>25</sub>	Sialyl Lewis X ceramide	257
C <sub>67</sub> H <sub>121</sub> N <sub>3</sub> O <sub>26</sub> ·xNa	GM2-Ganglioside	137
C <sub>68</sub> H <sub>54</sub> O <sub>19</sub>	Sucrose octabenzoate	263
C <sub>68</sub> H <sub>68</sub> O <sub>12</sub>	Benzyl 4-O-(2,3,4,6-tetra-O-benzyl-a-D-galactopyranosyl)-2,3-di-O-benzyl-6-O-benzoyl-b-D-galactopyranoside	44
	6-O-Benzoyl-1,2,3-tri-O-benzyl-4-O-(2,3,4,6-tetra-O-benzyl-a-D-galactopyranosyl)-b-D-galactopyranoside	38
C <sub>68</sub> H <sub>70</sub> O <sub>11</sub>	1,3,4,6-Tetra-O-benzyl-2-O-(2,3,4,6-tetra-O-benzyl-a-D-glucopyranosyl)-b-D-galactopyranoside	271
	2-O-(2,3,4,6-Tetra-O-benzyl-a-D-glucopyranosyl)-1,3,4,6-tetra-O-benzyl-b-D-galactopyranoside	271
C <sub>68</sub> H <sub>79</sub> NO <sub>34</sub>	4-Methoxyphenyl 4-O-[2-O-acetyl-3,4-di-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-6-O-benzyl-b-D-mannopyranosyl]-3,6-di-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	200
C <sub>68</sub> H <sub>112</sub> N <sub>4</sub> O <sub>51</sub>	Disialyl, monofucosyllactose-N-hexaose	89
C <sub>68</sub> H <sub>114</sub> N <sub>4</sub> O <sub>50</sub>	NA2F N-Glycan	225
C <sub>68</sub> H <sub>130</sub> N <sub>2</sub> O <sub>23</sub> P <sub>2</sub>	Lipid IVa	179
C <sub>68</sub> H <sub>68</sub> N <sub>2</sub> O <sub>17</sub>	4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-4-O-levulinoyl-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-2-deoxy-6-O-(4-methoxybenzyl)-2-phthalimido-b-D-glucopyranoside	205
C <sub>70</sub> H <sub>98</sub> O <sub>49</sub>	2,3-Di-O-acetyl-b-cyclodextrin	76
C <sub>70</sub> H <sub>107</sub> N <sub>5</sub> O <sub>56</sub>	Hyaluronic acid decasaccharide	154
C <sub>70</sub> H <sub>110</sub> O <sub>51</sub>	Succinyl-(2-hydroxypropyl)-b-cyclodextrin	261
C <sub>70</sub> H <sub>117</sub> N <sub>5</sub> O <sub>51</sub>	NA2B N-Glycan	226
C <sub>70</sub> H <sub>118</sub> N <sub>2</sub> O <sub>56</sub>	Man-9 N-Glycan	192
C <sub>70</sub> H <sub>119</sub> Na <sub>7</sub> O <sub>56</sub> ·S <sub>7</sub>	b-Cyclodextrin sulfobutyl ether sodium salt - USP	68
	b-Cyclodextrin sulfobutyl ether sodium salt	68
C <sub>70</sub> H <sub>124</sub> O <sub>42</sub> ·xNa	2,3,6-Trimethyl-gamma-cyclodextrin	280
C <sub>70</sub> H <sub>125</sub> N <sub>3</sub> O <sub>29</sub> ·xNa	GD3-Ganglioside	115
C <sub>70</sub> H <sub>126</sub> O <sub>35</sub>	2,6-Diethyl-b-cyclodextrin	81
C <sub>71</sub> H <sub>122</sub> N <sub>6</sub> O <sub>33</sub> S	GM1-Ganglioside labelled by biotin	137
C <sub>72</sub> H <sub>87</sub> NO <sub>31</sub>	4-Methoxyphenyl 2-acetamido-4-O-[2-O-acetyl-3,6-di-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-4-O-benzyl-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-b-D-glucopyranoside	199
C <sub>72</sub> H <sub>96</sub> O <sub>48</sub>	a-Cyclodextrin octadecaacetate	68
C <sub>72</sub> H <sub>108</sub> O <sub>30</sub>	2,3-Di-O-allyl-a-cyclodextrin	78
C <sub>72</sub> H <sub>120</sub> N <sub>6</sub> O <sub>50</sub>	NGA4F N-Glycan	233
C <sub>72</sub> H <sub>121</sub> N <sub>5</sub> O <sub>53</sub>	Trifucosyl(1-2,1-2,1-3)-iso-lacto-N-octaose	279
C <sub>72</sub> H <sub>132</sub> O <sub>30</sub>	Triethyl-a-cyclodextrin	279
C <sub>72</sub> H <sub>144</sub> O <sub>30</sub> Si <sub>6</sub>	6-tert-Butylidimethylsilyl-a-cyclodextrin	53
C <sub>73</sub> H <sub>121</sub> N <sub>5</sub> O <sub>54</sub>	A1 N-Glycan	132
C <sub>73</sub> H <sub>131</sub> N <sub>3</sub> O <sub>31</sub> ·xNa	GM1-Ganglioside	137

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C <sub>74</sub> H <sub>123</sub> N <sub>7</sub> O <sub>51</sub>	4-Methoxyphenyl 4-O-[3-O-(methyl 5-acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-D-glycero-a-D-galacto-2-nonulopyranosylonate)-2,6-di-O-benzyl-b-D-galactopyranosyl]-2,3,6-tri-O-benzyl-b-D-glucopyranoside	207	C <sub>98</sub> H <sub>196</sub> O <sub>35</sub> Si <sub>7</sub>	2,3-Dimethyl-6-tert-butylidimethylsilyl-b-cyclodextrin	85
C <sub>76</sub> H <sub>79</sub> N <sub>3</sub> O <sub>33</sub>	NGA4B N-Glycan	234	C <sub>100</sub> H <sub>134</sub> O <sub>67</sub>	Maltooctaose hexacosacetate	184
C <sub>76</sub> H <sub>102</sub> O <sub>51</sub>	Allyl 2,4,6-tri-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-a-D-mannopyranoside	28	C <sub>100</sub> H <sub>165</sub> N <sub>9</sub> O <sub>66</sub> S	DNS-SGN	90
C <sub>76</sub> H <sub>127</sub> N <sub>5</sub> O <sub>56</sub>	Maltohexaose eicosacetate	184	C <sub>101</sub> H <sub>100</sub> N <sub>2</sub> O <sub>25</sub>	4-Methoxyphenyl 4-O-[4-O-(4,6-O-benzylidene-2-O-levulinoyl-b-D-glucopyranosyl)-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-6-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside	202
C <sub>76</sub> H <sub>127</sub> N <sub>5</sub> O <sub>55</sub>	D-Cellohexose eicosacetate	58	C <sub>103</sub> H <sub>105</sub> N <sub>3</sub> O <sub>37</sub>	4-Methoxyphenyl 4-O-[2-O-acetyl-4-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,4-di-O-benzyl-a-D-mannopyranosyl]-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	201
C <sub>76</sub> H <sub>125</sub> N <sub>5</sub> O <sub>57</sub>	Sialylglycan	253	C <sub>103</sub> H <sub>111</sub> NO <sub>19</sub>	4-Methoxyphenyl 4-O-[2-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-b-D-mannopyranosyl]-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	201
C <sub>76</sub> H <sub>127</sub> N <sub>5</sub> O <sub>56</sub>	Disialyloctasaccharide	89	C <sub>104</sub> H <sub>192</sub> O <sub>40</sub>	2-Acetamido-1,6-di-O-benzyl-3-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-4-O-[2-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-3,4,6-tri-O-benzyl-b-D-galactopyranosyl]-2-deoxy-D-glucopyranoside	19
C <sub>76</sub> H <sub>127</sub> N <sub>5</sub> O <sub>55</sub>	NA3 N-Glycan	226	C <sub>105</sub> H <sub>143</sub> N <sub>5</sub> O <sub>62</sub>	2,6-di-O-methyl-3-O-n-pentyl-gamma-cyclodextrin	87
C <sub>76</sub> H <sub>127</sub> N <sub>5</sub> O <sub>55</sub>	NA2FB N-Glycan	225	C <sub>105</sub> H <sub>117</sub> O <sub>48</sub>	4-Methoxyphenyl 2-acetamido-3,6-di-O-acetyl-4-O-[2,4-di-O-acetyl-3-O-[3,6-di-O-acetyl-2,4-di-O-(3,4,6-tri-O-acetyl-2-acetamido-2-deoxy-b-D-glucopyranosyl)-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-acetamido-2-deoxy-b-D-glucopyranosyl)-a-D-mannopyranosyl]-2-deoxy-b-D-glucopyranoside	200
C <sub>76</sub> H <sub>128</sub> N <sub>2</sub> O <sub>61</sub>	Man-9-Glc N-Glycan	189	C <sub>106</sub> H <sub>182</sub> NO <sub>56</sub> ·4H <sub>2</sub> N	GQ1b-Ganglioside	139
C <sub>77</sub> H <sub>95</sub> NO <sub>32</sub> Si	4-Methoxyphenyl 4-O-[2-O-acetyl-3,4-di-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-6-O-tert-butylidimethylsilyl-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	201	C <sub>107</sub> H <sub>114</sub> N <sub>2</sub> O <sub>25</sub> Si	4-Methoxyphenyl 4-O-[4-O-(4,6-O-benzylidene-3-O-tert-butylidimethylsilyl-2-O-levulinoyl-b-D-glucopyranosyl)-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside	202
C <sub>78</sub> H <sub>138</sub> N <sub>4</sub> O <sub>34</sub> ·xNa	GD2-Ganglioside	115	C <sub>108</sub> H <sub>119</sub> N <sub>3</sub> O <sub>37</sub> Si	4-Methoxyphenyl 4-O-[2-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-b-D-mannopyranosyl]-6-O-tert-butylidimethylsilyl-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranoside	201
C <sub>79</sub> H <sub>74</sub> O <sub>16</sub>	1,6,6'-Tri-O-tritylsucrose pentaacetate	281	C <sub>109</sub> H <sub>178</sub> N <sub>8</sub> O <sub>80</sub>	A3 N-Glycan	133
C <sub>79</sub> H <sub>131</sub> N <sub>5</sub> O <sub>58</sub>	A1F N-Glycan	93	C <sub>110</sub> H <sub>208</sub> N <sub>2</sub> O <sub>26</sub> P <sub>2</sub>	Lipid A (Salmonella) triethylammonium	180
C <sub>79</sub> H <sub>141</sub> N <sub>3</sub> O <sub>35</sub>	Fucosyl-GM1 ganglioside	99	C <sub>110</sub> H <sub>198</sub> N <sub>2</sub> Na <sub>4</sub> O <sub>39</sub> P <sub>2</sub>	Dij[3-deoxy-D-manno-octulosonyl]-lipid A sodium salt - 0.5mg/ml aqueous solution	80
C <sub>80</sub> H <sub>112</sub> O <sub>48</sub>	2,3-Di-O-acetyl-6-deoxy-gamma-cyclodextrin	77	C <sub>112</sub> H <sub>189</sub> N <sub>15</sub> O <sub>70</sub>	Sialylglycopeptide	253
C <sub>80</sub> H <sub>112</sub> O <sub>56</sub>	3,6-Di-O-acetyl-gamma-cyclodextrin	77	C <sub>112</sub> H <sub>196</sub> O <sub>49</sub> Si <sub>7</sub>	Heptakis(2,3-di-O-acetyl-6-O-tert-butylidimethylsilyl)cyclomaltoheptaose	148
C <sub>81</sub> H <sub>86</sub> N <sub>2</sub> O <sub>29</sub>	2,3-Di-O-acetyl-gamma-cyclodextrin	76	C <sub>112</sub> H <sub>224</sub> O <sub>46</sub> Si <sub>8</sub>	2,3-di-O-methyl-6-O-tert-butylidimethylsilyl-gamma-cyclodextrin	85
C <sub>81</sub> H <sub>86</sub> N <sub>2</sub> O <sub>29</sub>	2-Acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-4-O-acetyl-6-O-(2,3,4,6-tetra-O-benzoyl-b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranosyl-Fmoc threonine tert-butyl ester	19	C <sub>113</sub> H <sub>113</sub> N <sub>3</sub> O <sub>38</sub>	4-Methoxyphenyl 4-O-[3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3,6-di-O-benzyl-6-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside	206
C <sub>82</sub> H <sub>80</sub> N <sub>2</sub> O <sub>22</sub>	4-Methoxyphenyl 4-O-[3,6-di-O-benzyl-2-deoxy-4-O-(4,6-O-benzylidene-2-O-levulinoyl-b-D-glucopyranosyl)-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-2-deoxy-6-O-(4-methoxybenzyl)-2-phthalimido-b-D-glucopyranoside	204	C <sub>118</sub> H <sub>111</sub> N <sub>3</sub> O <sub>24</sub>	2,4,6-Tri-O-(3,4,6-tri-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-a-D-mannopyranose	281
C <sub>82</sub> H <sub>138</sub> N <sub>6</sub> O <sub>56</sub>	NGA5B N-Glycan	234	C <sub>119</sub> H <sub>132</sub> N <sub>2</sub> O <sub>29</sub> S	Benzyl 2-acetamido-4-O-[2-acetamido-4-O-(2,4-di-O-acetyl-3,6-di-O-benzyl-b-D-glucopyranosyl)-3,6-di-O-benzyl-6-O-(2-O-acetyl-3,4,6-tri-O-benzyl-a-D-mannopyranosyl)-2-deoxy-b-D-glucopyranosyl]-3,6-di-O-benzyl-2-deoxy-5-thio-b-D-glucopyranoside	39
C <sub>82</sub> H <sub>137</sub> N <sub>5</sub> O <sub>60</sub>	NA3F N-Glycan	225			
C <sub>82</sub> H <sub>155</sub> N <sub>2</sub> O <sub>20</sub> P·NH <sub>3</sub>	Monophosphoryl 3-deacyl Lipid A ammonium salt	223			
C <sub>83</sub> H <sub>80</sub> N <sub>2</sub> O <sub>18</sub>	4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-6-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside	205			
C <sub>84</sub> H <sub>112</sub> O <sub>56</sub>	Tri-O-acetyl-b-cyclodextrin	276			
C <sub>84</sub> H <sub>126</sub> O <sub>35</sub>	2,3-Di-O-allyl-b-cyclodextrin	78			
C <sub>84</sub> H <sub>138</sub> N <sub>6</sub> O <sub>62</sub>	A2 N-Glycan	132			
C <sub>84</sub> H <sub>140</sub> O <sub>70</sub>	iota-Cyclodextrin	157			
C <sub>84</sub> H <sub>148</sub> N <sub>4</sub> O <sub>39</sub> ·xNa	GD1a-Ganglioside	115			
C <sub>84</sub> H <sub>151</sub> O <sub>35</sub>	Heptakis(2,3,6-tri-O-ethyl)cyclomaltoheptaose	148			
C <sub>84</sub> H <sub>168</sub> O <sub>35</sub> Si <sub>7</sub>	6-Tert-butylidimethylsilyl-b-cyclodextrin	267			
C <sub>84</sub> H <sub>168</sub> O <sub>30</sub> Si <sub>6</sub>	2,3-Dimethyl-6-tert-butylidimethylsilyl-a-cyclodextrin	85			
C <sub>88</sub> H <sub>86</sub> N <sub>2</sub> O <sub>20</sub>	4-Methoxyphenyl 4-O-(3,6-di-O-benzyl-2-deoxy-4-O-levulinoyl-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl-6-O-(2,3,4-tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside	205			
C <sub>88</sub> H <sub>118</sub> O <sub>59</sub>	Maltoheptaose tricosacetate	183			
C <sub>90</sub> H <sub>148</sub> N <sub>6</sub> O <sub>66</sub>	A2F N-Glycan	93			
C <sub>90</sub> H <sub>150</sub> N <sub>6</sub> O <sub>66</sub>	NA4 N-Glycan	226			
C <sub>94</sub> H <sub>178</sub> N <sub>2</sub> O <sub>25</sub> P <sub>2</sub>	Lipid A (E. Coli) triethylammonium salt	179			
C <sub>95</sub> H <sub>170</sub> O <sub>40</sub>	2,3,6-Triethyl-gamma-cyclodextrin	278			
C <sub>95</sub> H <sub>165</sub> N <sub>5</sub> O <sub>48</sub> ·xNa	GT1b-Ganglioside	115			
C <sub>96</sub> H <sub>128</sub> O <sub>64</sub>	2,3,6-Tri-O-acetyl-gamma-cyclodextrin	275			
C <sub>96</sub> H <sub>144</sub> O <sub>40</sub>	2,3-Di-O-allyl-gamma-cyclodextrin	78			
C <sub>96</sub> H <sub>181</sub> N <sub>2</sub> O <sub>22</sub> P	Lipid A monophosphoryl	179			



Formula	Product Name	Page
C <sub>120</sub> H <sub>108</sub> O <sub>42</sub>	2,3-Di-O-benzoyl- $\alpha$ -cyclodextrin	79
C <sub>120</sub> H <sub>132</sub> O <sub>30</sub>	2,3-Di-O-benzyl- $\alpha$ -cyclodextrin	79
C <sub>125</sub> H <sub>117</sub> N <sub>3</sub> O <sub>25</sub>	4-Methoxyphenyl 2,4,6-tri-O-(3,4,6-tri-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-3-O-benzyl- $\alpha$ -D-mannopyranoside	209
C <sub>125</sub> H <sub>159</sub> N <sub>5</sub> O <sub>58</sub>	4-Methoxyphenyl 2-acetamido-3,6-di-O-benzyl-4-O-[2,4-di-O-acetyl-3-O-[3,6-di-O-benzyl-2,4-di-O-(3,4,6-tri-O-acetyl-2-acetamido-2-deoxy-b-D-glucopyranosyl)]-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-acetamido-2-deoxy-b-D-glucopyranosyl)]-a-D-mannopyranosyl]-b-D-mannopyranosyl]-2-deoxy-b-D-glucopyranoside	200
C <sub>126</sub> H <sub>266</sub> O <sub>35</sub> Si <sub>14</sub>	2,6-Di-O-tert-butyl(dimethylsilyl)- $\beta$ -cyclodextrin	79
C <sub>128</sub> H <sub>240</sub> O <sub>40</sub>	2,6-di-n-pentyl- $\gamma$ -cyclodextrin	88
C <sub>140</sub> H <sub>154</sub> O <sub>35</sub>	2,3-Di-O-benzyl- $\beta$ -cyclodextrin	79
C <sub>144</sub> H <sub>232</sub> F <sub>24</sub> O <sub>48</sub>	2,6-di-O-n-pentyl-3-O-trifluoroacetyl- $\gamma$ -cyclodextrin	88
C <sub>144</sub> H <sub>256</sub> O <sub>48</sub>	2,6-di-O-n-pentyl-3-O-acetyl- $\gamma$ -cyclodextrin	87
C <sub>144</sub> H <sub>304</sub> O <sub>40</sub> Si <sub>16</sub>	3,6-Di-tert-butylmethylsilyl- $\gamma$ -cyclodextrin	80
C <sub>144</sub> H <sub>304</sub> O <sub>40</sub> Si <sub>16</sub>	2,6-Di-tert-butyl(dimethylsilyl)- $\gamma$ -cyclodextrin	80
C <sub>151</sub> H <sub>152</sub> N <sub>4</sub> O <sub>47</sub>	4-Methoxyphenyl 4-O-[4-O-[2-O-Ac-3-O-[2,4-di-O-(3,4,6-tri-O-Ac-2-deoxy-2-PhthN-b-D-Glc)-3,6-di-O-Bn-a-D-Man]-b-D-Man]-3,6-di-O-Bn-2-deoxy-2-PhthN-b-D-Glc]-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-deoxy-2-PhthN-b-D-Glc	199
C <sub>153</sub> H <sub>157</sub> N <sub>5</sub> O <sub>62</sub>	4-Methoxyphenyl 3,6-di-O-benzyl-4-O-[2-O-acetyl-3-O-[3,6-di-O-benzyl-2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-a-D-mannopyranosyl]-b-D-mannopyranosyl]-2-deoxy-2-phthalimido-b-D-glucopyranoside	204
C <sub>156</sub> H <sub>154</sub> N <sub>4</sub> O <sub>46</sub>	4-Methoxyphenyl 4-O-[4-O-[3-O-[2,4-di-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-3,6-di-O-Bn-a-D-Man]-4,6-O-benzylidene-b-D-Glc]-3,6-di-O-Bn-2-PhthN-b-D-Glc]-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-PhthN-b-D-Glc	206
C <sub>156</sub> H <sub>207</sub> N <sub>13</sub> O <sub>247</sub> S <sub>39</sub> Na <sub>52</sub>	Heparin derived dp26 saccharide ammonium salt	142
C <sub>158</sub> H <sub>156</sub> N <sub>4</sub> O <sub>47</sub>	4-Methoxyphenyl 4-O-[4-O-[2-O-Ac-3-O-[2,4-di-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-3,6-di-O-Bn-a-D-Man]-4,6-O-benzylidene-b-D-Man]-3,6-di-O-Bn-2-PhthN-b-D-Glc]-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-PhthN-b-D-Glc	199
C <sub>160</sub> H <sub>288</sub> O <sub>48</sub>	2,6-di-O-n-pentyl-3-O-n-butyl- $\gamma$ -cyclodextrin	88
C <sub>161</sub> H <sub>160</sub> N <sub>4</sub> O <sub>48</sub>	4-Methoxyphenyl 4-O-[4-O-[3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-3,6-di-O-benzyl-a-D-mannopyranosyl]-4,6-O-benzylidene-2-O-levulinoyl-b-D-glucopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-glucopyranoside	206
C <sub>167</sub> H <sub>206</sub> N <sub>6</sub> O <sub>65</sub> S	Benzyl 2-acetamido-4-O-[2-acetamido-4-O-[2,4-Di-O-acetyl-3-O-[2,4-di-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)]-3,6-di-O-benzyl-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)]-a-D-mannopyranosyl]-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-b-D-glucopyranosyl]-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-b-D-thioglucofuranoside	38
C <sub>182</sub> H <sub>154</sub> O <sub>56</sub>	Tri-O-benzoyl- $\beta$ -cyclodextrin	278
C <sub>189</sub> H <sub>154</sub> O <sub>56</sub>	Heptakis(2,3,6-tri-O-benzoyl)cyclomaltoheptaose	148

Formula	Product Name	Page
C <sub>196</sub> H <sub>200</sub> N <sub>6</sub> O <sub>72</sub>	4-O-[4-O-[2,4-Di-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-3,6-di-O-benzyl-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-a-D-mannopyranosyl]-b-D-mannopyranosyl]-2-deoxy-2-phthalimido-b-D-glucopyranoside	77
C <sub>201</sub> H <sub>204</sub> N <sub>6</sub> O <sub>72</sub>	4-Methoxyphenyl 4-O-[4-O-[2-O-Ac-3-O-[2,4-di-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-3,6-di-O-Bn-a-D-Man]-6-O-[3,4-di-O-Ac-2,6-di-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-a-D-Man]-b-D-Man]-3,6-di-O-Bn-2-PhthN-b-D-Glc]-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-PhthN-b-D-Glc	199
C <sub>203</sub> H <sub>206</sub> N <sub>6</sub> O <sub>73</sub>	4-Methoxyphenyl 4-O-[4-O-[2,4-di-O-Ac-3-O-[2,4-di-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-3,6-di-O-Bn-a-D-Man]-6-O-[3,4-di-O-Ac-2,6-di-O-(3,4,6-tri-O-Ac-2-PhthN-b-D-Glc)-a-D-Man]-b-D-Man]-3,6-di-O-Bn-2-PhthN-b-D-Glc]-3-O-Bn-6-O-(tri-O-Bn-a-L-Fuc)-2-PhthN-b-D-Glc	203
C <sub>203</sub> H <sub>206</sub> N <sub>6</sub> O <sub>71</sub> S	Benzyl 4-O-[4-O-[2,4-di-O-acetyl-3-O-[2,4-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-3,6-di-O-benzyl-a-D-mannopyranosyl]-6-O-[3,4-di-O-acetyl-2,6-di-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-3-O-benzyl-6-O-(tri-O-benzyl-a-L-fucopyranosyl)-2-deoxy-2-phthalimido-b-D-thioglucofuranoside	42
C <sub>208</sub> H <sub>288</sub> O <sub>40</sub> Si <sub>8</sub>	2,3-Di-O-benzyl-6-O-tert-butyl(dimethylsilyl)- $\gamma$ -cyclodextrin	79
C <sub>209</sub> H <sub>216</sub> O <sub>40</sub>	Mono-(2,3-di-O-benzyl)-(2,3,6-tri-O-benzyl)- $\gamma$ -cyclodextrin	221
C <sub>216</sub> H <sub>224</sub> O <sub>40</sub>	2,3,6-Tri-O-benzyl- $\gamma$ -cyclodextrin	278
C <sub>216</sub> H <sub>176</sub> O <sub>64</sub>	2,3,6-Tri-O-benzoyl- $\gamma$ -cyclodextrin	277
C <sub>240</sub> H <sub>464</sub> O <sub>40</sub>	2,3,6-Triocetyl- $\gamma$ -cyclodextrin	280
C <sub>244</sub> H <sub>238</sub> N <sub>8</sub> O <sub>78</sub> S	Benzyl 6-O-acetyl-3-O-benzyl-4-O-[4-O-[2,4-di-O-acetyl-3-O-(3-O-benzyl-2,4,6-tri-O-(3,4,6-tri-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-a-D-mannopyranosyl]-6-O-(3-O-benzyl-2,4,6-tri-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)]-a-D-mannopyranosyl]-b-D-mannopyranosyl]-3,6-di-O-benzyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl]-2-deoxy-2-phthalimido-b-D-thioglucofuranoside	42

# Carbosynth



## Human Milk Oligosaccharides

Human breast milk provides the primary source of nutrition for newborns before they are able to eat and digest other foods. One distinctive property of human milk from most other species is the amount and diversity of the free oligosaccharide it contains. These human milk oligosaccharides (HMO) can be present at levels of up to 12 g/l in milk and up to 20 g/l in colostrum.<sup>1</sup> HMO have been attributed with a variety of functions including:

- 1) Prebiotic
- 2) Decoy carbohydrate
- 3) Immunomodulation

### HMO Structure

Currently at least 130 unique HMO have been identified, all differing by constituent sugars, molecular weight or structure. Many share a common motif characterized by repetitive attachment of galactose (Gal) and N-acetylglucosamine (GlcNAc)<sup>2</sup> in a  $\beta$ -glycosidic linkage to lactose. Additional variety is generated by the addition of fucose (termed neutral HMO), e.g. 3'-Fucosyllactose, (OF05673) or 2-Fucosyllactose, (OF06739) and sialic acid (termed acidic HMO), e.g. 6'-Sialyllactose, (OS04398) and 3'-Sialyllactose, (OS04397). Addition is via  $\alpha$ -glucosidic bonds to generate oligosaccharides from three to thirty two sugars in length. Whilst most of the biosynthesis of HMO is not controlled at the gene level (unlike proteins) the presence and position of fucosylation is governed by the Lewis/Secretor status of the mother.<sup>3</sup> Dominant neutral oligosaccharides have been identified as lacto-N-tetraose (OL05683), lacto-N-neotetraose (OL05765) and lacto-N-fucopentaose I and V (OL05676 and OL06817 respectively)<sup>4</sup>

### Prebiotic Properties of HMO

The most abundant HMO is lacto-N-tetraose which is able to survive the acid environment of the stomach and is not degraded by normal gut enzymes. It therefore can pass down to the lower intestine where it acts as a prebiotic which encourages lower gut colonisation by many bifidobacteria species, which are recognised as essential for normal gut function.<sup>5</sup>

### HMO as Decoy Carbohydrates

Binding to a host cell wall is critical for the virulence of many pathogenic bacteria including *Campylobacter jejuni*, *E.coli*, *Vibrio cholera*, and *Shigella* and some *Salmonella* strains. Many of the virulence factors of these organisms are carbohydrate-binding proteins (lectins) which bind sugars displayed on cell membranes. HMO can bind to these lectins acting as decoys and preventing pathogens from

sticking to the target cells. An example of this is the inverse relationship between the incidence of *C. jejuni*, (one of the most predominant causes of diarrhoea in the world) in breast-fed children and levels of 2-fucosyl-lactose in the mother's milk. (*C. jejuni* is known to adhere to intestinal 2-fucosyl-lactosamine).<sup>6</sup> Similar antimicrobial effects of HMO have also been demonstrated for calicivirus diarrhoea and infections with heat stable enterotoxin of *E. coli*.<sup>7</sup>

During ingestion, HMO coat the throat and are known to inhibit adhesion of *Streptococcus pneumoniae* and *Haemophilus influenzae* to human pharyngeal or buccal epithelial cells resulting in the lower incidence of otitis media (inner ear infection) in breast fed babies.<sup>8</sup>

### Immune Role of HMO

Selectins are glycoproteins which are displayed on the surface of many cells of the immune system and are involved with cell/cell interactions such as the infiltration of tissues in inflammation. Selectins bind to specific fucosylated and sialylated oligosaccharides, e.g., sialyl Lewis x (sLe<sup>x</sup>, OS04058), on their respective target ligands. HMO share many structural similarities to these carbohydrate ligands and acidic (sialylated) HMO are able to inhibit rolling and adhesion of leucocytes at physiologically relevant concentrations.

One of these selectin interactions is the formation of platelet/neutrophil complexes (PNCs) which lead to the activation of the neutrophils. PNCs are thought to be involved in necrotizing enterocolitis (NEC) and HMO have been attributed as the agent responsible for the lower incidence of NEC in breast fed infants (85 % lower than formula fed infants) via inhibition of PNC formation.<sup>9</sup>

Fractions of HMO are also known to inhibit the binding of both Galectins which bind  $\beta$ -Gal and LAcNAc terminated glycans and Siglecs which are specific for terminal sialic acid, their role in immunity or development however has not yet been fully explored.<sup>10,11</sup>

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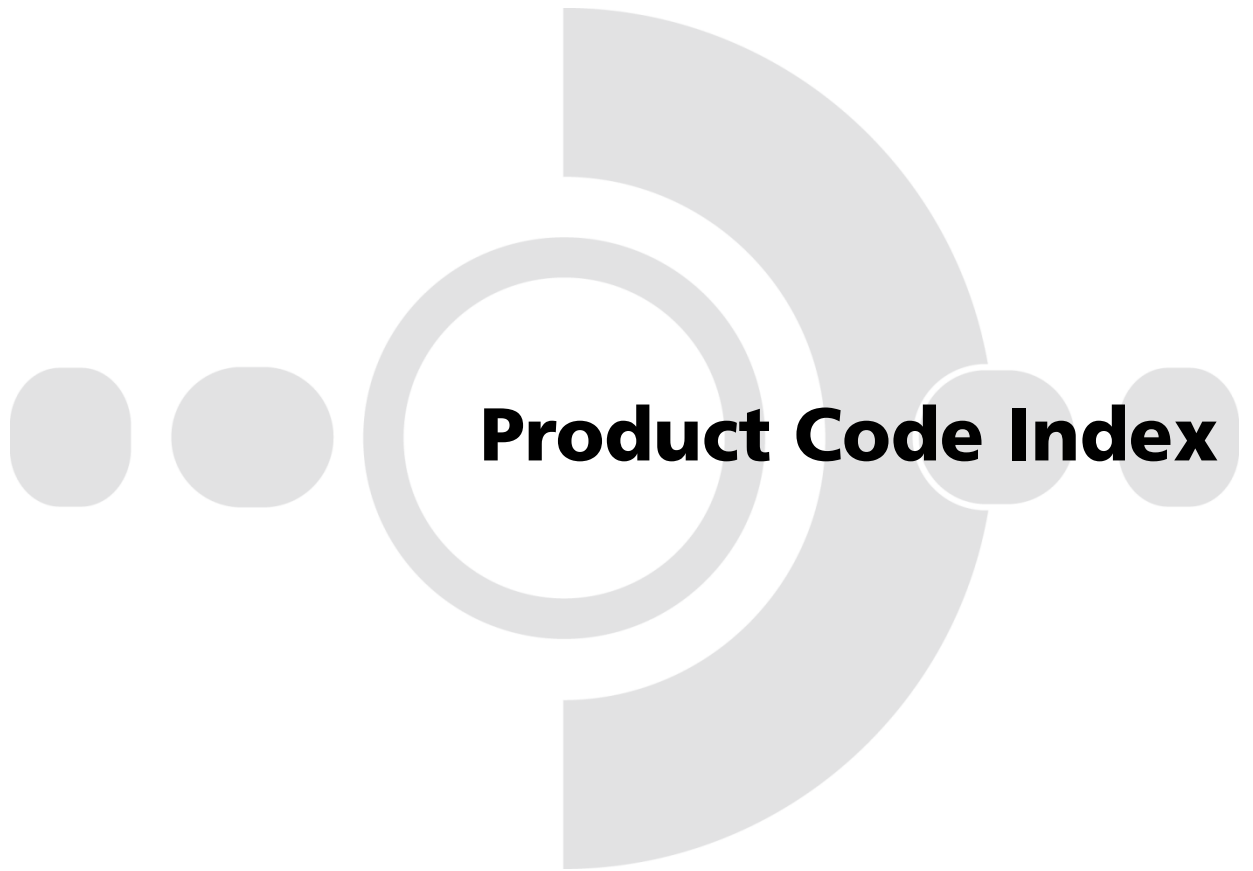
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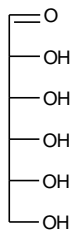
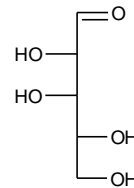
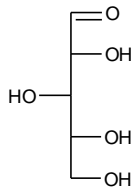
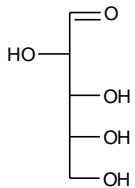
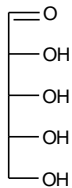
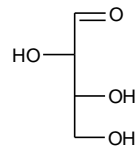
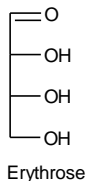
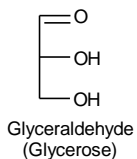
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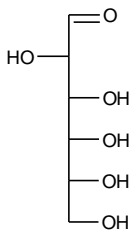


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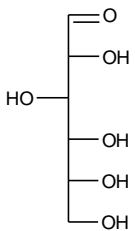
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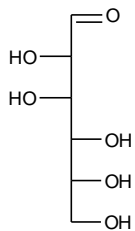
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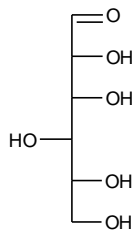
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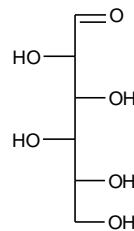
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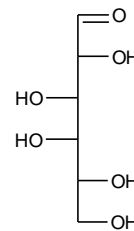
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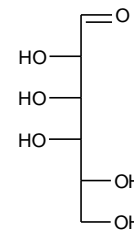
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Idose



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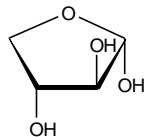


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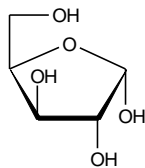


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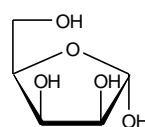
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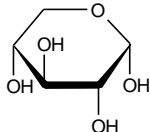
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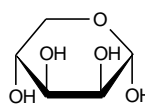
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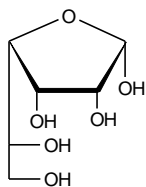
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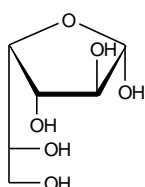
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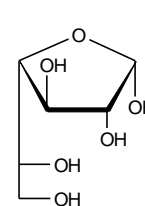
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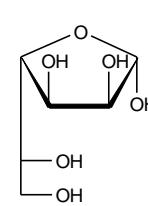
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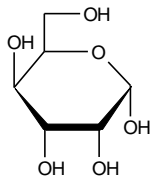
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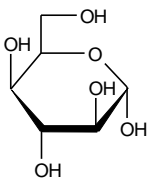
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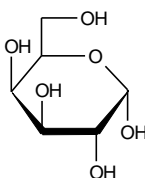
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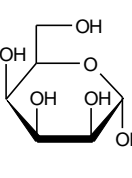
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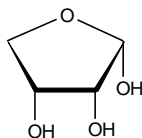


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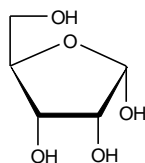


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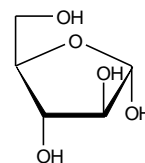
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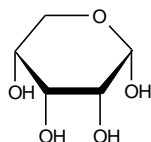
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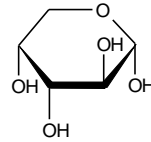
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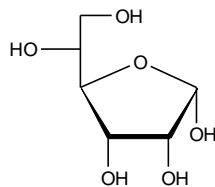
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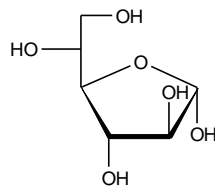
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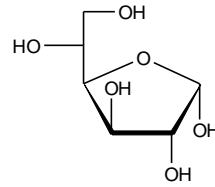
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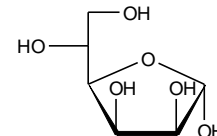
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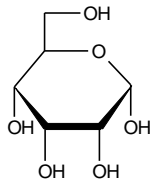
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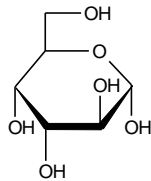
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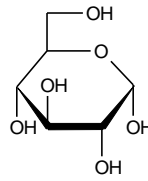
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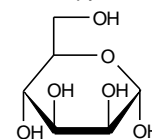
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Glucopyranose



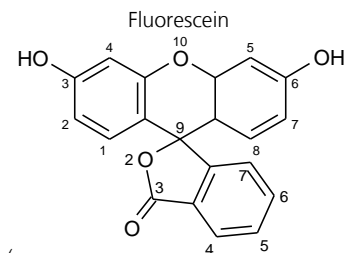
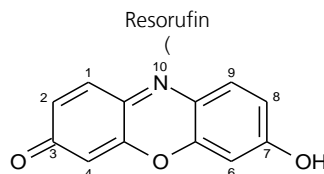
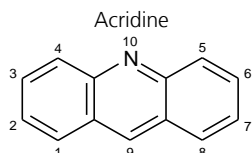
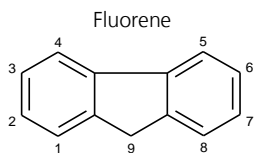
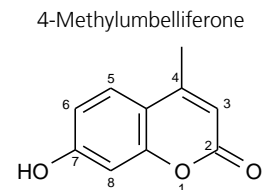
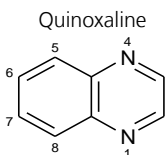
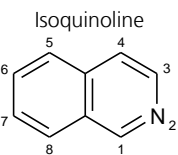
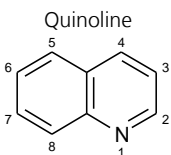
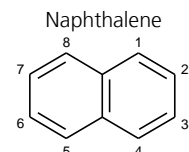
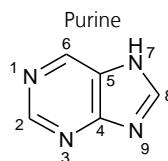
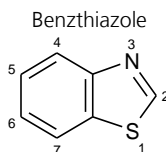
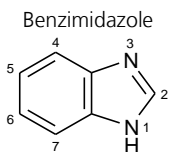
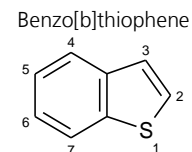
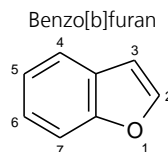
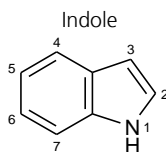
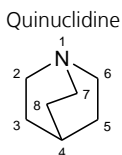
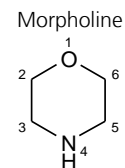
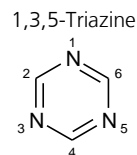
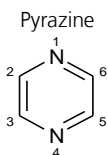
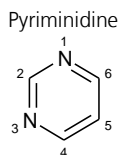
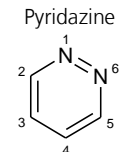
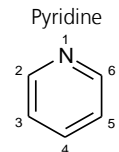
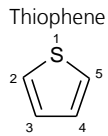
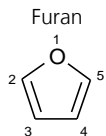
Mannopyranose





# Ring Numbering System

# Ring Numbering System



# Catalogue Abbreviations

\$	United States Dollars	Fru	Fructose	ManNAc	N-Acetyl-mannosamine
£	United Kingdom Pounds	Fuc	Fucose	MCe	Methyl cellulose
€	Euros	FucN	Fucosamine	Me	Methyl group
a	Alpha	FucNac	N-Acetyl-fucosamine	Mel	Methiodide
Ac	Acetyl	FW	Formula weight calculated using C mass 12.0107 and including hydrates if known	mg	Milligram
AdNJ	2-Acetamido-1,2-dideoxynojirimycin	G	Gram	ug	Microgram
ADR	European Agreement concerning the International Carriage of Dangerous goods by Road	GAG	Glycosaminoglycan	MMT	Monomethoxytrityl
Alt	Altrose	Gal	Galactose	Ms	Methanesulfonyl
APD	Acetylphenylenediamine	GalA	Galacturonic acid	MTS	Methanethiosulfonyl
APE	Aminophenylethyl	GalNAc	N-Acetylgalactosamine	MU	Methylumbelliferyl
API	Active Pharmaceutical Ingredient	GDP	Guanosine 5'-diphosphate	n	Normal
Ara	Arabinose	Glc	Glucose	NAG	N-Acetyl-glucosamine
ATP	Adenosine 5'-triphosphate	GlcA	Glucuronic acid	NANA	N-Acetyl neuraminic acid
AZT	Azidothymidine	GlcN	Glucosamine	NAO	Non-animal origin
b	Beta	GlcNAc	N-Acetylglucosamine	Neu	Neuraminic acid
Bn	Benzyl	Gul	Gulose	Neu5Ac	N-Acetyl neuraminic acid
Boc	tert-Butoxycarbonyl	GulA	Guluronic acid	ONP	2-Nitrophenyl
BSA	Bovine serum albumin	HEC	Hydroxyethyl cellulose	ONPG	2-Nitrophenyl-b-D-galactopyranoside
Bz	Benzoyl	HM	High methoxy	Ots	p-Toluenesulfonyl
ca.	approximately	HPC	Hydroxypropyl cellulose	PAP	p-Aminophenyl
CAP	Cellulose acetate phthalate	HPLC	High-performance liquid chromatography	PGX	Polyglycoplex
CAS	Chemical Abstracts Service (Registry Number)	HPMC	Hydroxypropylmethyl cellulose	PMB	Anisoyl
CMC	Carboxymethyl cellulose	HPMCP	Hydroxypropylmethyl cellulose phthalate	PNP	4-Nitrophenyl
CM-Dextran	Carboxymethyl dextran	HSA	Human serum albumin	PugNAc	O-(2-Acetamido-2-deoxy-D-glucopyranosylidene)amine N-phenyl carbamate
CUG	Carboxyumbelliferyl galactopyranoside	i	Iota	Rha	Rhamnose
DEAE-Dextran	Diethylaminoethyl dextran	Ido	Idose	Rib	Ribose
DIC	1,3-Diisopropylcarbodiimide	IdoA	Iduronic acid	ROW	Rest of World
DMF	Dimethylaminomethylidene	Ino	Inositol	Sol	Solution
DMT	Dimethoxytrityl	IPTG	Isopropyl b-D-1-thiogalactopyranoside	Sor	Sorbose
E	trans	k	Kappa	Tag	Tagatose
EC	European Commission	Kg	Kilogram	Tal	Talose
ECe	Ethyl cellulose	KLH	Keyhole limpet hemocyanin	TBDMS	tert-Butyldimethyl silyl
EHC	Ethyl hydroxyethyl cellulose	l	Lambda	t-Bu	tert-Butyl
EINECS	European Inventory of Existing Commercial Chemical Substances	LacNAc	N-Acetyl-lactosamine	Tol	Tolyl
ELINCS	European List of Notified Chemical Substances	LM	Low methoxy	Tr	Trityl
Et	Ethyl group	LogNAc	2-Acetamido-2-deoxy-D-glucohydroximo-1,5-lactone	UDP	Uridine 5'-diphosphate
Et3N	Triethyl amine	Lyx	Lyxose	UN Number	United Nations Substance Identification Number
EUR	Euros	Man	Mannose	WSC	Water-soluble carbodiimide
EXW	Ex works	ManA	Mannurinic acid	Xyl	Xylose
Fmoc	Fluorenylmethoxycarbonyl	ManN	Mannosamine	Z	cis

# Journal Abbreviations

Acc. Chem. Res.	Accounts of Chemical Research	Biosci. Rep.	Bioscience Reports
Acta. Crystallogr. Sect. A	Acta Crystallographica Section A: Foundations	Biotechnol. Appl. Biochem.	Biotechnology and Applied Biochemistry
Acta. Crystallogr. Sect. B	Acta Crystallographica Section A: Foundations	Biotechnol. Bioeng.	Biotechnology and Bioengineering
Acta. Crystallogr. Sect. C	Acta Crystallographica Section C: Crystal Structure Communications	Biotechnol. Lett.	Biotechnology Letters
Acta. Crystallogr. Sect. D	Acta Crystallographica Section D: Biological Crystallography	Br. J. Pharmacol.	British Journal of Pharmacology
Acta. Crystallogr. Sect. E	Acta Crystallographica Section E: Structure Reports Online	Bull. Korean Chem. Soc.	Bulletin of the Korean Chemical Society
Adv. Synth. Catal.	Advanced Synthesis and Catalysis	Can. J. Biochem.	Canadian Journal of Biochemistry
Anal. Biochem.	Analytical Biochemistry	Can. J. Chem.	Canadian Journal of Chemistry
Anal. Chim. Acta	Analytica Chimica Acta	Carbohydr. Chem	Carbohydrate Chemistry
Angew. Chem. Int. Ed.	Angewandte Chemie International Edition	Carbohydr. Res.	Carbohydrate Research
Antimicrob. Agents Chemother.	Antimicrobial Agents and Chemotherapy	Cell Biochem. Funct.	Cell Biochemistry and Function
Antiviral Chem. Chemother.	Antiviral Chemistry and Chemotherapy	Chem. Ber.	Chemische Berichte
Appl. Compos. Mater.	Applied Composite Materials	Chem. Commun.	Chemical Communications
Appl. Environ. Microbiol.	Applied and Environmental Microbiology	Chem. Eur. J.	Chemistry - A European Journal
Appl. Microbiol. Biotechnol	Applied Microbiology and Biotechnology	Chem. Heterocycl. Compd.	Chemistry of Heterocyclic Compounds
Arch. Biochem. Biophys.	Archives of Biochemistry and Biophysics	Chem. Nat. Compd.	Chemistry of Natural Compounds
Arch. Environ. Contam. Toxicol.	Archives of Environmental Contamination and Toxicology	Chem. Pharm. Bull.	Chemical and Pharmaceutical Bulletin
Arch. Microbiol.	Archives of Microbiology	Chem. Phys. Lipids	Chemistry and Physics of Lipids
Biochem. Biophys. Res. Commun.	Biochemical and Biophysical Research Communications	Chem. Res. Toxicol.	Chemical Research in Toxicology
Biochem. J.	Biochemical Journal	Chem. Rev.	Chemical Reviews
Biochem. Pharmacol.	Biochemical Pharmacology	Chin. Chem. Lett.	Chinese Chemical Letters
Biochim. Biophys. Acta	Biochimica et Biophysica Acta	Clin. Biochem.	Clinical Biochemistry
Biomed. Chromatogr.	Biomedical Chromatography	Clin. Chim. Acta	Clinica Chimica Acta
Bioorg. Med. Chem.	Bioorganic and Medicinal Chemistry	Collect. Czech. Chem. Commun.	Collection of Czechoslovak Chemical Communications
Bioorg. Med. Chem. Lett.	Bioorganic and Medicinal Chemistry Letters	Enzyme Microb. Technol.	Enzyme and Microbial Technology
Biophys. Chem.	Biophysical Chemistry	Eur. J. Biochem.	European Journal of Biochemistry
Biophys. J.	Biophysical Journal	FEBS Lett.	FEBS Letters
Biosci. Biotechnol. Biochem.	Bioscience Biotechnology and Biochemistry	Free Radical Biol. Med.	Free Radical Biotechnology and Medicine
		Fresenius J. Anal. Chem.	Fresenius Journal of Analytical Chemistry
		Glycoconjugate J.	Glycoconjugate Journal
		Helv. Chim. Acta	Helvetica Chimica Acta
		Indian J. Chem. Sect. A	Indian Journal of Chemistry Section A
		Indian J. Chem. Sect. B	Indian Journal of Chemistry Section B

# Journal Abbreviations

Inorg. Chem.	Inorganic Chemistry	Macromol. Chem. Phys.	Macromolecular Chemistry and Physics
Int. J. Chem. Kinet.	International Journal of Chemical Kinetics	Mendeleev Commun.	Mendeleev Communications
Int. J. Polym. Mater.	International Journal of Polymeric Materials	Methods Enzymol.	Methods in Enzymology
Int. J. Radiat. Biol.	International Journal of Radiation Biology	Mikrochim. Acta	Mikrochimica Acta
J. Am. Chem. Soc.	Journal of the American Chemical Society	Mol. Cell. Biochem.	Molecular and Cellular Biochemistry
J. AOAC Int.	Journal of AOAC International	Mol. Microbiol.	Molecular Microbiology
J. Appl. Polym. Sci.	Journal of Applied Polymer Science	Mol. Pharmacol.	Molecular Pharmacology
J. Bacteriol.	Journal of Bacteriology	Mol. Phys.	Molecular Physics
J. Biol. Chem.	Journal of Biological Chemistry	Nat. Biotechnol.	Nature Biotechnology
J. Biomed. Mater. Res.	Journal of Biomedical Materials Research	Nucleic Acids Res.	Nucleic Acids Research
J. Carbohydr. Chem.	Journal of Carbohydrate Chemistry	Org. Lett.	Organic Letters
J. Cell. Biochem.	Journal of Cellular Biochemistry	Org. Mass Spectrom.	Organic Mass Spectrometry
J. Chem. Ecol.	Journal of Chemical Ecology	Pharm. Chem. J.	Pharmaceutical Chemistry Journal
J. Chem. Soc. Chem. Commun.	Journal of the Chemical Society, Chemical Communications	Photochem. Photobiol.	Photochemistry and Photobiology
J. Chem. Soc. Perkin Trans. 1	Journal of the Chemical Society, Perkin Transactions 1	Polym. Adv. Technol.	Polymers for Advanced Technology
J. Chem. Soc. Perkin Trans. 2	Journal of the Chemical Society, Perkin Transactions 2	Reel. Trav. Chim. Pays-Bas	Recueil des Travaux Chimiques des Pays-Bas Journal
J. Chromatogr.	Journal of Chromatography	Russ. Chem. Bull.	Russian Chemical Bulletin
J. Ferment Bioeng.	Journal of Fermentation and Bioengineering	Synth. Commun.	Synthetic Communications
J. Ind. Microbiol. Biotechnol.	Journal of Industrial Microbiology and Biotechnology	Tetrahedron Lett.	Tetrahedron Letters
J. Mass Spectrom.	Journal of Mass Spectrometry	Tetrahedron: Asymmetry	Tetrahedron: Asymmetry
J. Med. Chem.	Journal of Medicinal Chemistry		
J. Membr. Biol.	Journal of Membrane Biology		
J. Membr. Sci.	Journal of Membrane Science		
J. Org. Chem.	Journal of Organic Chemistry		
J. Pharm. Sci.	Journal of Pharmaceutical Sciences		
J. Pharmacol. Exp. Ther.	Journal of Pharmacology and Experimental Therapeutics		
J. Polym. Sci. Part A: Polym. Chem.	Journal of Polymer Science Part A: Polymer Chemistry		
J. Polym. Sci. Part B: Polym. Phys.	Journal of Polymer Science Part B: Polymer Physics		
Liebigs Ann. Chem.	Liebigs Annalen der Chemie		

# Carbosynth



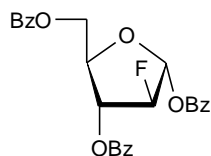
The Source for **Carbohydrates and Nucleosides**

## Fluorination Technology

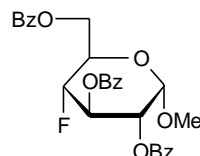
Fluorinated organic compounds have attracted wide interest in drug discovery due to the fluorine's small size (similar to hydrogen), the stable carbon-fluorine bond and its electronegativity. Carbosynth has developed expertise in fluorination of carbohydrates and nucleosides and this technology has been successfully applied at both lab and plant scale.

### Monosaccharides

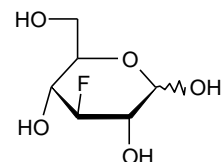
Our fluorination technology has been used to make the following types of monosaccharide



1,3,5-Tri-O-benzoyl-2-deoxy-2-fluoro- $\alpha$ -D-arabinofuranose (MT04218)



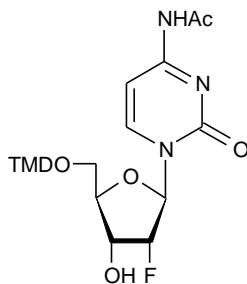
Methyl 2,3,6-tri-O-benzoyl-4-deoxy-4-fluoro- $\alpha$ -D-glucopyranoside (MM06982)



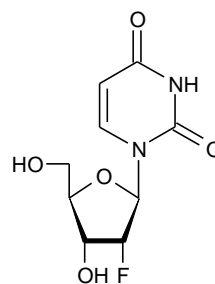
3-Deoxy-3-fluoro-D-glucose (MD05769)

### Nucleosides and Bases

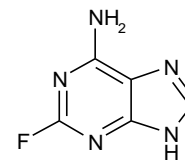
We have extended our technology to nucleosides and nucleoside bases, a few of which are listed here:



N4-Acetyl-2'-deoxy-5'-O-DMT-2'-fluoro-D-cytidine (NA06052)



2'-Deoxy-2'-fluoro-D-uridine (ND06544)



2-Fluoroadenine (FF05946)

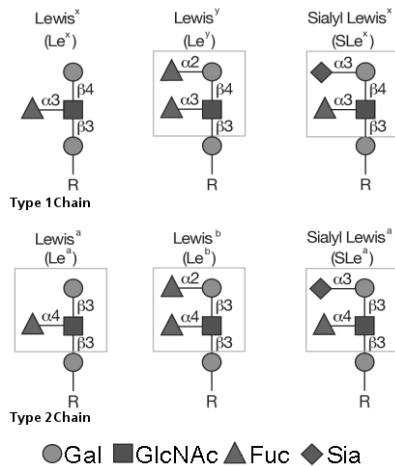


# Carbosynth



## Lewis Sugars

The antigens of the Lewis system are carbohydrate determinants carried either on proteins or lipids. Although they were first detected on red blood cells (RBCs), the majority of the biochemical studies have been performed on Lewis substances isolated from plasma or saliva. They are assembled by sequential addition of specific monosaccharides onto terminal saccharide precursor chains on glycolipids or glycoproteins. On the erythrocyte surface they reside on glycolipids. In contrast to the other blood group antigens, the synthesis of these glycolipids does not occur in erythroid tissues, but they are acquired by the erythrocyte membranes from other tissues through circulating lipoproteins.<sup>1</sup>



**Figure 1** Schematic structure of the Lewis sugars  
Structure and Biosynthesis of Lewis Sugars

The ABH and Lewis glycoproteins possess a common basic structure and their blood group specificity is determined by the sequence and linkage. There are four Lewis antigens, termed Lewis A ( $Le^a$ ), Lewis B ( $Le^b$ ), Lewis X ( $Le^x$ ) and Lewis Y ( $Le^y$ ). (Product codes OL04541, OL02434, OL06490 and OL06521 respectively.)  $Le^a$  and  $Le^x$  are the product of the action of an  $\alpha$ -1,3-1,4-fucosyltransferase (gene code: FUT3) which adds fucose on the central GlcNAc of the core sugar (see figure 1). If the fucose is added to a type 2 core carbohydrate in an  $\alpha$ -1,4 linkage the resulting product is known

as  $Le^y$ , and if the core is a type 1 chain then the fucose is added via an  $\alpha$ -1,3 linkage and  $Le^x$  is synthesised. (Type 1 chains have a  $\beta$ -1,3 core Gal, whilst type 2 chains possess  $\beta$ -1,4 Gal core).  $Le^b$  and  $Le^y$  antigens are synthesised by the action of a second fucosyl transferase (gene code: FUT2 or Se gene) which adds a second fucose  $\alpha$ -1,2 onto the terminal galactose of the Lewis antigen.<sup>2</sup> Complete  $Le^b$  or  $Le^y$  sugars cannot be further glycosylated due to steric hindrance but  $Le^x$  or  $Le^a$  is often found sialylated to give sialyl lewis A ( $sLe^a$ ) and sialyl lewis X ( $sLe^x$ ) respectively (product codes OS00745 and OS04058).

### Tissue Distribution

As noted above the Lewis antigens are not synthesized in erythrocyte progenitors. The glycolipids that carry the Lewis antigens circulate in plasma either bound to serum lipoproteins or in the form of aqueous dispersions and can become adsorbed to the erythrocyte by a passive adsorption process.<sup>1</sup> The synthesis of Lewis glycans occurs predominantly in epithelial cells, mostly of endothelial origin and the digestive track is probably a major, but not exclusive, site of Lewis antigen synthesis. Lewis and related antigens may also occur as free oligosaccharides in milk and urine or may be protein-bound in a variety of tissues.

Surprisingly red blood cells from newborns are neither Lewis A nor B regardless of their genetic makeup as their cells have not had time to adsorb Lewis antigens from the plasma.<sup>3</sup>

### Clinical Relevance of Lewis Antigens

Immuno-histochemical studies on tumour specimens have shown that Lewis<sup>x</sup> and Lewis<sup>a</sup> structures are frequently over-expressed in carcinomas, being carried on O-glycans as well as on N-glycans and glycosphingolipids. In fact  $sLe^x$  and  $sLe^a$  were first identified as tumour antigens<sup>4</sup> rather than blood antigens. The expression of these antigens by epithelial carcinomas correlates with tumour progression, metastatic spread, and poor prognosis in humans, and metastatic potential in mice. Since  $sLe^x$  and  $sLe^a$  can bind to the selectins involved in cell adherence and immune stimulation it is reasonable to postulate that any tumour cells expressing  $sLe^x$  and  $sLe^a$  have an advantage in metastasis and immune avoidance<sup>5</sup>.

The discovery that *Helicobacter pylori* (the causative agent in gastritis, peptic ulcers and gastric carcinoma) uses a fucose of  $Le^b$  as a receptor to establish infection<sup>6</sup> has stimulated research in the role of Lewis status in many diseases of the GI tract.

Lewis antigens have also been implicated as having a role in transplant immunology as studies suggest those transplant patients who are  $Le^a$  and  $Le^b$  negative have shorter transplant survival times than those who have a Lewis gene.<sup>7</sup>

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# Terms of Sale

## Application

These terms and conditions apply to all sales of goods by the Seller to any Purchaser (Buyer) and shall prevail over and apply to the exclusion of any terms or conditions contained or referred to in the Buyer's order or in correspondence or elsewhere or implied by trade custom or dealing unless specifically agreed to in writing by a director or other authorised representative of the Seller and any purported provisions to the contrary are hereby excluded or extinguished.

## Definitions

"Seller" means Carbosynth Limited (registration number 5771788)

"Products" "Goods" means the items described in the orders to be supplied by Carbosynth to the Buyer pursuant to this Agreement

"Buyer" "Purchaser" means the other party to this agreement

## Quotations

A quotation by the Seller does not constitute an offer and may be withdrawn or revised at any time prior to the Seller's acceptance of the Buyer's order.

## Prices

**(A)** The prices payable for the goods shall be those contained in the Seller's list prices that is current at the time of despatch. The Seller shall have the right at any time to withdraw any discount from its normal prices and/or to revise prices to take into account increases in costs including without limitation costs of any goods, materials, carriage, labour or overheads, the increase or imposition of any tax, duty or other levy and any variation in exchange rates.

**(B)** Unless otherwise specified VAT and any other tax or duties payable by the Buyer shall be added to the price.

## Terms of Payment

**(A)** Payment of invoices, unless subject to the terms and conditions under "Export Sales", shall unless otherwise agreed in writing be made in full without any deduction or set-off within 30 days of the date of invoice.

**(B)** Any extension of credit allowed to the Buyer may be changed or withdrawn at any time

**(C)** Interest shall be payable on overdue accounts at the rate of 3% over Royal Bank of Scotland Plc base rate to run from the due date for payment thereof until receipt by the Seller of the full amount whether or not after judgement.

## Delivery

**(A)** Delivery dates mentioned in any quotation, acknowledgement of order or elsewhere are approximate only and not of any contractual effect and the Seller shall not be under any liability to the Buyer in respect of any failure to deliver on any particular date or dates.

**(B)** Delivery shall be at the Buyer's premises unless otherwise stipulated or agreed by the Seller. The Seller may charge for delivery other than at its premises.

**(C)** If the Buyer refuses or fails to take delivery of goods tendered in accordance with the contract the Seller shall be entitled to immediate payment in full for the goods so tendered. The Seller shall be entitled to store at the risk of the Buyer any goods of which the Buyer refuses or fails to take delivery and the Buyer shall in addition to the purchase price pay all costs of such storage and any additional costs incurred as a result of such refusal or failure. The Seller shall be entitled after the expiration of 3 months from the date upon which the price became payable to dispose of the goods in such manner as the Seller may determine.

## Divisibility

Each delivery made hereunder shall be deemed to arise from a separate contract and shall be invoiced separately; any invoice for a delivery shall be payable in full in accordance with the terms of payment provided for herein, without reference to and notwithstanding any defect of default in delivery of any other instalment.

## Risk

Subject (where appropriate) to the terms and conditions under "Export Sales" shall pass on delivery.

## Export Sales

**(A)** In the case where the goods are sold CIF or FOB or on the basis of other international trade term the meaning of such term contained in incoterms as revised from time to time shall apply except where inconsistent with any of the provisions contained in these Conditions.

**(B)** Unless otherwise agreed the price of the goods shall be secured by an irrevocable Letter of Credit satisfactory to the Seller established by the Buyer in favour of the Seller immediately upon receipt of the Seller's acknowledgement of order and confirmed by a United Kingdom bank acceptable to the Seller. The letter of credit shall be for the contract price inclusive of any tax or duty payable by the Buyer and shall be valid for at least 6 months or such longer period as shall have been estimated by the Seller for delivery. The Seller shall be entitled to payment on presentation to such United Kingdom bank of the documents specified by the Seller or as herein stipulated.

**(C)** Should the Buyer fail when requested by the Seller and within the time specified by the Seller to take any action necessary on its part for delivery and/or shipment of the goods then (i) The Seller shall be entitled by way of delivery to store the goods in a warehouse at the expense and risk of the Buyer (ii) The price shall become immediately payable (iii) If payment is secured by a Letter of Credit the Seller shall be entitled to payment on presentation of the copy sales

# Terms of Sale

invoice and the warehouse receipt and (iv) The Seller shall be entitled after the expiration of 3 months from the date upon which the price became payable to dispose of the goods in such manner as the Seller may determine without accounting to the Buyer therefore:

**(D)** Section 32(2) of the Sale of Goods Act 1979 shall not apply. The Seller shall not be required to give the Buyer the notice specified in Section 32(3) of that Act.

## Title

**(A)** Title to the goods shall not pass to the Buyer until the earlier of: payment in full of the price or the goods ceasing to be identifiable by virtue of their utilisation or consumption in the production of other items or materials. Until such payment, utilisation or consumption the Buyer shall have possession of the goods as bailee for the Seller and shall store the goods in such a way as to enable them to be identifiable as the property of the Seller provided that if the Buyer is purchasing the goods for resale the Buyer may in the ordinary course of its business sell and deliver the goods to a third party on condition that until such payment as aforesaid the Buyer shall hold all proceeds of such sale in trust for the Seller and in a separate account. The Buyer hereby undertakes forthwith upon being so requested by the Seller to assign to the Seller all rights and claims which the Buyer may have against its customers arising from such sales until payment is made in full as aforesaid.

**(B)** The Seller reserves the right to repossess any identifiable goods in respect of which payment is overdue and thereafter to re-sell the same and for this purpose the Buyer grants an irrevocable right and licence to the Seller's servants and agents to enter upon all or any of its premises with or without vehicles during normal business hours. This right shall continue to subsist notwithstanding the termination of the contract for any reason and is without prejudice to any accrued rights of the Seller there under or otherwise.

## Variation

The Seller shall be determined to have fulfilled its contractual obligations in respect of any delivery though the quantity may be up to 10% more or less than the quantity specified in the contract and in such event the Buyer shall pay for the actual quantity delivered.

## Third Party Rights

**(A)** The Buyer shall indemnify the Seller against any and all liabilities, claims and costs incurred by or made against the Seller as a direct or indirect result of the carrying out of any work required to be done on or to the goods in accordance with the requirements or specifications of the Buyer involving any infringement or alleged infringement of any rights of any third party.

**(B)** The Seller shall have no liability to the Buyer in the event of the goods infringing or being alleged to infringe the rights of any third party. In the event that the goods are or may be the subject of patent, copyright, registered design, trade mark or other rights of any third party the Seller shall be obliged to transfer to the Buyer only such title as the Seller may have.

## Specifications

Unless expressly agreed in writing by the Seller all data sheets, specifications and particulars of physical properties submitted by the Seller are approximate only and the Seller shall have no liability in respect of any deviation therefrom. The Seller accepts no responsibility for any errors, omissions or other defects in any data sheets, specifications or particulars of physical properties not prepared by the Seller and the Seller shall be indemnified by the Buyer against any and all liabilities and expenses incurred by the Seller arising therefrom.

## Liability

**(A)** The Seller shall not be liable to the Buyer (i) For shortages in quantity delivered unless the Buyer notifies the Seller of any claim of short delivery within 7 days of receipt of goods (ii) Where goods are carried by the Seller's own transport or by a carrier on

behalf of the Seller for damage in transit to the goods apparent upon a reasonable inspection or loss in transit of the goods or any part thereof unless the Buyer shall notify the Seller of any such claim within 14 days of receipt of the goods or the scheduled date of delivery whichever shall be the earlier (iii) For defects in the goods caused by any act, neglect or default of the Buyer or of any third party. (iv) For other defects in the goods unless notified to the Seller within 14 days of receipt of the goods by the Buyer or where the defect would not be apparent on reasonable inspection within 3 months of delivery.

**(B)** The Seller may at its option make good any shortage or non-delivery and/or as appropriate replace any goods found to be damaged or defective.

**(C)** The Seller's aggregate liability to the Buyer whether for negligence, breach of contract, misrepresentation or otherwise shall in no circumstances exceed the cost of the defective damaged or under delivered goods determined by net price invoiced to the Buyer in respect of any occurrence or series of occurrences.

**(D)** The Seller's prices are determined on the basis of the limits of liability set out in this Condition. The Buyer may by written notice to the Seller request the Seller to agree a higher limit of liability provided insurance cover can be obtained therefore. The Seller shall effect insurance up to such limit and the Buyer shall pay upon demand the amount of any and all premiums. The Buyer shall disclose such information as the insurer shall require. In no case shall the Buyer be entitled to recover from the Seller more than the amount received from the insurers.

**(E)** Without prejudice to any other provisions herein where a shelf life is specified for the goods (in any relevant data sheet or other document available to the Buyer) the Seller shall have no liability for any degradation to the goods after the expiry of such shelf life and for any resulting loss to the Buyer and any other person, firm or company

# Terms of Sale

**(F)** Subject to the foregoing all conditions, warranties and representations expressed or implied by statute, common law or otherwise in relation to the goods are hereby excluded and the Seller shall be under no liability to the Buyer for any loss, damage or injury direct or indirect resulting from defective material, faulty workmanship or otherwise howsoever arising and whether or not caused by the negligence of the Seller, its employees or agents SAVE THAT the Seller shall accept liability for death or personal injury caused by the negligence of the Seller.

## Packaging

**(A)** The Buyer shall meet the cost of any special packaging requested by the Buyer for any packaging rendered necessary by delivery by any means other than the Seller's normal means of delivery.

**(B)** The Seller shall be entitled to invoice the Buyer for the cost of all pallets and other returnable packaging materials unless the same are returned to the Seller in good condition carriage paid within 30 days of the date of delivery.

## Licences and Consents

If any licence or consent of any government or other authority shall be required for the acquisition, carriage or use of the goods by the Buyer the Buyer shall obtain the same at its own expense and if necessary produce evidence of the same to the Seller on demand. Failure to do so shall not entitle the Buyer to withhold or delay payment of the price. Any additional expenses or charges incurred by the Seller resulting from such failure shall be for the Buyer's account.

## Force Majeure

**(A)** The Seller shall not be liable to the Buyer for any loss or damage which may be suffered by the Buyer as a direct or indirect result of the supply of goods by the Seller

being prevented, hindered, delayed or rendered uneconomic by reason of circumstances or events beyond the Seller's reasonable control including but not limited to act of God, war, riot, strike, lock-out, trade dispute or labour disturbance, accident, breakdown of plant or machinery, fire, flood, storm, difficulty or increased expense in obtaining workmen, materials or transport or other circumstances affecting the supply of the goods or of raw materials therefore by the Seller's normal source of supply or the manufacture of the goods by the Seller's normal means or the delivery of the goods by the Seller's normal route or means of delivery

**(B)** If due to such events or circumstances the Seller has insufficient stocks to meet all its commitments the Seller may apportion available stocks between its customers at its sole discretion.

## Insolvency and Default

If the Buyer makes any voluntary arrangement with its creditors or becomes subject to an administration order or permits an act of bankruptcy or compounds with his creditors or if a receiving order is made against him or if (being a company) an order is made or a resolution is passed for the winding up of the Buyer (otherwise than for the purpose of amalgamation or reconstruction) or if a receiver is appointed of any of the Buyer's assets or undertaking or if circumstances arise which entitle the court or a creditor to appoint a receiver or manager or which entitle the court to make a winding up order or if the Buyer takes or suffers any similar or analogous action in consequence of debt or commits any breach of this or any other contract between the Seller and the Buyer the Seller may without prejudice to any of its other rights stop any goods in transit and/or suspend further deliveries and/or determine the rights of the Buyer under condition 8 and/or by notice in writing to the Buyer determine the contract.

## Waiver

Failure by the Seller to exercise or enforce any rights hereunder shall not be deemed to be a waiver of any such right nor operate so as to bar the exercise or enforcement thereof at any time or times thereafter.

## Notices

Any notice hereunder shall be deemed to have been duly given if sent by registered post, personal delivery, telex, fax or e-mail to the party concerned at its last known address. Notices sent by registered post shall be deemed to have been given 7 days after despatch and notices sent by telex, fax or e-mail shall be deemed to have been given on the date of despatch. Notices given by personal delivery shall be deemed to be given on delivery.

## Governing Law

This contract shall be governed by and construed in all respects in accordance with the laws of England and the parties hereby submit to the jurisdiction of the English court.

## Health and Safety

The Seller provides Material Safety Data Sheets on request, in accordance with current legislation; the goods supplied are for supply to qualified personnel only. The goods should be used in facilities designed for chemical, biological and allied research only and not for human or animal consumption. Goods should be stored in accordance with details provided on the Material Safety Data Sheet and labels. Precautions should be taken to ensure that contact between goods and skin, eyes or other mucous membranes is avoided using where necessary protective clothing and air extraction.



# 進階生物科技股份有限公司

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