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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.

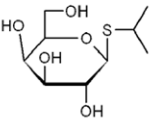
Key to Product Listing

Product Name —● Isopropyl b-D-thiogalactopyranoside - non-animal origin

Synonym or Acronym —● • IPTG non-animal origin

CAS Registry Number —● [367-93-1] C₉H₁₈O₅S 238.30

Product Code —● EI05931

Structure —● 

Product Grade —●

Formula —●

Formula Weight —●

10g	\$35.00	● Prices
25g	\$60.00	
50g	\$95.00	

Typical Pack Size —●

Refs: 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

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 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**

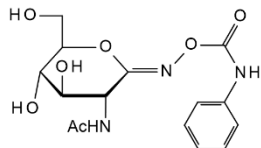


O-(2-Acetamido-2-deoxy-D-glucopyranosylidene)amino N-phenyl carbamate

• PugNAc

[132489-69-1] C₁₅H₁₉N₃O₇ 353.33

EA06838	5mg	\$70.00
	10mg	\$130.00
	25mg	\$300.00



Refs: Khidekel N, Ficarro SB, Clark PM, Bryan MC, Swaney DL, Rexach JE, Sun YE, Coon JJ, Peters EC, Hsieh-Wilson LC, Nature Chemical Biology, 2007, 3, p339; Haltiwanger RS, et. al., J. Biol. Chem. 1988, 273, p3611

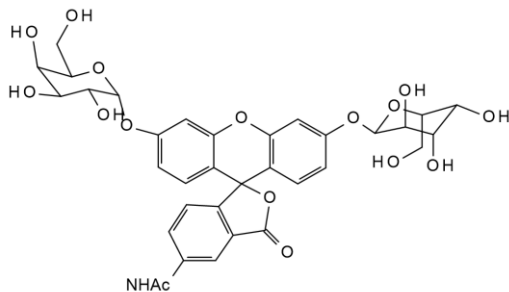
5-Acetamidofluorescein-di-(b-D-galactopyranoside)

• C2FDG

• 2-Acetylaminofluorescein-di-(b-D-galactopyranoside)

[216299-45-5] C₃₄H₃₅NO₁₆ 713.65

EA03178	1mg	\$99.80
	2mg	\$189.00
	5mg	\$378.00

**1-Acetoxyppyrene-3,6,8-trisulfonic acid trisodium salt**

see 8-Acetoxyppyrene-1,3,6-trisulfonic acid trisodium salt, EA45175 on page 9

8-Acetoxyppyrene-1,3,6-trisulfonic acid trisodium salt

• 1-Acetoxyppyrene-3,6,8-trisulfonic acid trisodium salt

[115787-83-2] C₁₈H₉Na₃O₁₁S₃ 566.42

EA45175	250mg	\$85.00
	500mg	\$140.00
	1g	\$240.00

**Acetyl-L-alanine 7-amido-4-methylcoumarin**

[355137-87-0] 288.3

EA30530

25mg	\$87.00
50mg	\$151.00
100mg	\$262.00

**6-(N-Acetyl-L-alanyl) rhodamine 110**

EA31343

Price On Application

**2-Acetylaminofluorescein-di-(b-D-galactopyranoside)**

see 5-Acetamidofluorescein-di-(b-D-galactopyranoside), EA03178 on page 9

N-Acetyl-5-bromo-4-chloro-3-hydroxy-1H-indole

see 5-Bromo-4-chloro-3-indoxyl-1-acetate, EB56757 on page 27

1-Acetyl-5-bromo-4-chloro-1H-indol-3-ol

see 5-Bromo-4-chloro-3-indoxyl-1-acetate, EB56757 on page 27

Acetyl CoALi3

see Acetyl coenzyme A trilithium salt trihydrate, EA65397 on page 9

Acetyl coenzyme A trilithium salt trihydrate

• Acetyl CoALi3

[72-89-9]

EA65397

5mg	\$53.00
10mg	\$85.00
25mg	\$170.00



Acetyldihydr**10-Acetyl-3,7-dihydroxyphenoxazine**

- ADHP
- 1-(3,7-Dihydroxy-10H-phenoxazin-10-yl)ethanone

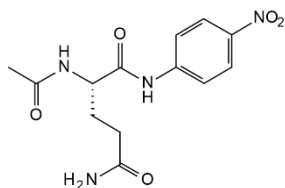
[119171-73-2] C₁₄H₁₁NO₄ 257.24

EA58690	5mg	\$85.00
	10mg	\$150.00
	20mg	\$260.00

**N-Acetyl-L-glutamine p-nitroanilide**C₁₃H₁₅N₃O₆ 309.27

EA31322

1g	\$2100.00
2g	\$2625.00
5g	\$3412.50

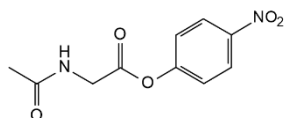
**N-Acetyl-glycine 4-nitrophenyl ester**see *N-Acetyl-glycine p-nitroanilide*, EA31321 on page 10**N-Acetyl-glycine p-nitroanilide**

- N-Acetyl-glycine 4-nitrophenyl ester
- Ac-Gly-ONp

[3304-61-8] C₁₀H₁₀N₂O₅ 238.2

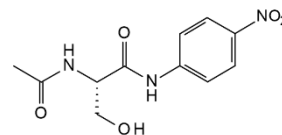
EA31321

250mg	\$125.00
500mg	\$195.00
1g	\$350.00

**N-Acetylglucosamine-b-PNP**see *4-Nitrophenyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside*, EN04915 on page 101**Acetyl-beta-methylcholine bromide**see *Methacholine bromide*, EM70336 on page 68**N-Acetyl-S-(4-nitrophenyl)-L-cysteine**see *S-(4-Nitrophenyl)mercapturic acid*, EN26334 on page 125**N-Acetyl-3-[(p-nitrophenyl)thio]alanine**see *S-(4-Nitrophenyl)mercapturic acid*, EN26334 on page 125**N-Acetyl-L-serine p-nitroanilide**C₁₁H₁₂N₂O₆ 268.22

EA31320

1g	\$2625.00
2g	\$3150.00
5g	\$3937.50

**Acetylthiocholine bromide**

- (2-Mercaptoethyl)trimethylammonium bromide acetate

[25025-59-6] C₇H₁₆BrNOS 242.18

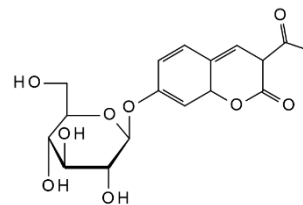
EA66467

1g	\$68.00
2g	\$118.00
5g	\$225.00

**3-Acetylbumbelliferyl b-D-glucopyranoside**[20943-16-2] C₁₇H₁₈O₉ 366.32

EA06744

2mg	\$78.00
5mg	\$152.30
10mg	\$262.50



Refs: Gonzalez FJ, et.al, J. of Lipid Res, 2009, 50, p924

**Ac-Gly-ONp**see *N-Acetyl-glycine p-nitroanilide*, EA31321 on page 10

Acidic Sophorolipids mix-acetylated - mixture of C30H54O13, C32H56O14 and C34H58O15

• 17-L-[(2'-O-β-D-Glucopyranosyl-β-D-glucopyranosyl)oxy]-cis-9-octadecenoic acid (6',6"-diacetate)

622.74, 664.78 and 706.82

DA71487

Price On Application

**Acidic Sophorolipids non-acetylated**

• 17-L-[(2'-O-β-D-Glucopyranosyl-β-D-glucopyranosyl)oxy]-cis-9-octadecenoic acid

C₃₀H₅₄O₁₃ 622.74

DA71484

Price On Application

**Actein**

• 9,19-Cyclolanostane-beta-D-xylopyranoside

[18642-44-9] C₃₇H₅₆O₁₁ 676.83

EA65593

1mg	\$150.00
2mg	\$230.00
5mg	\$455.00

**ADHP**

see 10-Acetyl-3,7-dihydroxyphenoxazine, EA58690 on page 10

L-Ala-AMC-HCl

see L-Alanine-7-amido-4-methylcoumarin hydrochloride, EA47660 on page 11

D-Alanine-AMC-free base

see D-Alanine 7-amido-4-methylcoumarin free base, EA16003 on page 11

beta-Alanine-AMC.TFA salt

see b-Alanine 7-amido-4-methylcoumarin trifluoroacetate salt, EA16004 on page 11

L-Alanine-AMC TFA salt

see L-Alanine-7-amido-4-methylcoumarin trifluoroacetic acid salt, EA09861 on page 12

D-Alanine-AMC.TFA

see D-Alanine 7-amido-4-methylcoumarin trifluoroacetate salt, EA15995 on page 12

D-Alanine 7-amido-4-methylcoumarin free base

• D-Alanine-AMC-free base

C₁₃H₁₄N₂O₃ 246.26

EA16003

1mg	\$36.80
2mg	\$52.50
5mg	\$78.80

**L-Alanine-7-amido-4-methylcoumarin hydrochloride**

• L-Ala-AMC-HCl

[77471-41-1] C₁₃H₁₄N₂O₃·HCl 282.72

EA47660

50mg	\$75.00
100mg	\$110.00
250mg	\$195.00

**b-Alanine 7-amido-4-methylcoumarin trifluoroacetate salt**

• beta-Alanine-AMC.TFA salt

[201847-54-3] C₁₅H₁₅F₃N₂O₅ 360.29

EA16004

100mg	\$126.00
250mg	\$197.50
500mg	\$330.00



Alanineamido

D-Alanine 7-amido-4-methylcoumarin trifluoroacetate salt

• D-Alanine-AMC.TFA

[201847-52-1] C₁₅H₁₅F₃N₂O₅ 360.29

EA15995

100mg	\$85.00
250mg	\$150.00
500mg	\$250.00



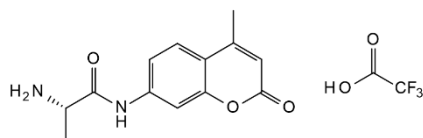
L-Alanine-7-amido-4-methylcoumarin trifluoroacetic acid salt

• L-Alanine-AMC TFA salt
 • (2S)-2-Amino-N-(4-methyl-2-oxo-2H-1-benzopyran-7-yl)-propanamide 2,2,2-trifluoroacetate

[96594-10-4] C₁₃H₁₄N₂O₃·C₂HF₃O₂ 360.29

EA09861

1g	\$65.00
2g	\$120.00
5g	\$275.00



Albamycin

see *Novobiocin sodium salt*, EN15775 on page 135

Alkylspherolipids

DA71485

Price On Application



Alphachrome

• Remazol brilliant blue carboxymethyl amylose

[71501-06-9]

EA67590

1g	\$60.00
2g	\$100.00
5g	\$200.00

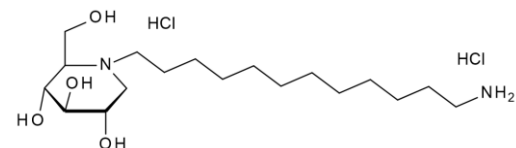


N-(12-Aminododecyl)-1-deoxyojirimycin dihydrochloride

[885484-41-3] C₁₈H₃₈N₂O₄·2HCl 419.43

EA09268

50mg	\$1050.00
100mg	\$1575.00
250mg	\$2625.00



3-Amino-9-ethylcarbazole

• 3-Amino-N-ethylcarbazole

[132-32-1] C₁₄H₁₄N₂ 210.27

EA00384

10g	\$60.00
25g	\$90.00
50g	\$150.00



3-Amino-N-ethylcarbazole

see *3-Amino-9-ethylcarbazole*, EA00384 on page 12

(S)-2-Amino-3-(3-indolyl)propionic acid

see *L-Tryptophan*, ET06029 on page 153

(2S)-2-Amino-N-(4-methyl-2-oxo-2H-1-benzopyran-7-yl)-propanamide 2,2,2-trifluoroacetate

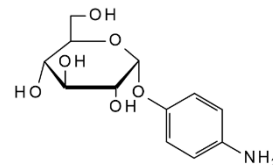
see *L-Alanine-7-amido-4-methylcoumarin trifluoroacetic acid salt*, EA09861 on page 12

4-Aminophenyl a-D-glucopyranoside

[31302-52-0] C₁₂H₁₇NO₆ 271.27

EA05100

50mg	\$52.50
100mg	\$95.00
250mg	\$185.00

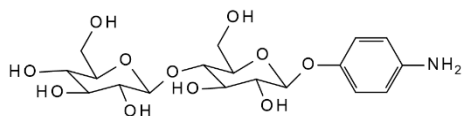


Refs: Kobayash H, Koumoto K, Jung J H, Shinkai S, J. Chem. Soc. Perkins Trans, 2002, 2, p.1930

4-Aminophenyl b-D-cellobioside[42935-24-0] C₁₈H₂₇NO₁₁ 433.41

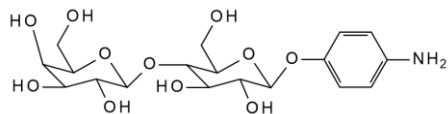
EA05142

25mg	\$65.00
50mg	\$110.00
100mg	\$190.00

**4-Aminophenyl b-D-lactopyranoside**[17691-02-0] C₁₈H₂₇NO₁₁ 433.41

EA04486

25mg	\$89.50
50mg	\$157.50
100mg	\$263.00

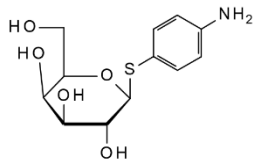


Refs: Roy R, et al. J. Chem. Soc. Chem. Commun. 1991, p536

4-Aminophenyl b-D-thiogalactopyranoside[29558-05-2] C₁₂H₁₇NO₅S 287.33

EA06539

50mg	\$315.00
100mg	\$420.00
250mg	\$787.50



Refs: C M Mcgee, D R Murray, Ann. Botany 57, 179, 1986

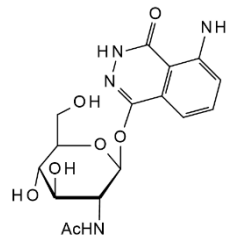
(2-Aminophthalylhydrazido) 2-acetamido-2-deoxy-b-D-glucopyranoside

- LUM-NAG
- 2-Aminophthalylhydrazido-N-acetyl-b-D-glucosaminide

[128879-80-1] C₁₈H₂₀N₄O₇ 380.35

EA05713

5mg	\$89.30
10mg	\$157.50
25mg	\$315.00



Refs: Sasamoto K, et al, Chem. Pharm. Bull. 1990, 38, 5, p1323

2-Aminophthalylhydrazido-N-acetyl-b-D-glucosaminide

see (2-Aminophthalylhydrazido) 2-acetamido-2-deoxy-b-D-glucopyranoside, EA05713 on page 13

2-Amino-5-pyridyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-a-D-galactopyranose

EA46722

Price On Application

**4-Amino-4'-sulfopropylamino-3,3',5,5'-tetramethylbiphenyl sodium salt**

see N-(3-Sulfopropyl)-3,3',5,5'-tetramethylbenzidine sodium salt, ES09345 on page 150

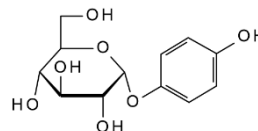
a-Arbutin

• 4-Hydroxyphenyl-a-D-glucopyranoside

[84380-01-8] C₁₂H₁₆O₇ 272.25

EA10634

10g	\$65.00
25g	\$105.00
50g	\$190.00



Arbutin**Arbutin - Natural origin**[497-76-7] C₁₂H₁₆O₇ 272.25

EA31688

100g	\$80.00
250g	\$75.00
500g	\$250.00

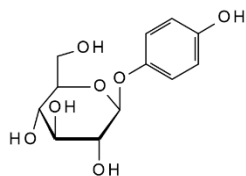
**Arbutin - Synthetic origin**

- 4-Hydroxyphenyl b-D-glucopyranoside
- Hydroquinone-b-D-glucoside

[497-76-7] C₁₂H₁₆O₇ 272.25

EA01844

100g	\$53.00
250g	\$105.00
500g	\$185.00

**4-[[5-[(3aS,4S,6aR)-Hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]benzoic acid sodium salt**

see (+)-Biotin 4-amidobenzoic acid sodium salt, EB18607 on page 16

ATB-BMPA

see 2-N-[4-(1-Azitrifluoroethyl)benzoyl]-1,3-bis-(D-mannos-4-yloxy)-2-propylamine, EA18115 on page 14

3-(4-Azidophenyl)-1-[2-(b-D-glucopyranosyloxy)-4,6-dihydroxyphenyl]-1-propanone

see 4-Azidophlorizin, EA18107 on page 14

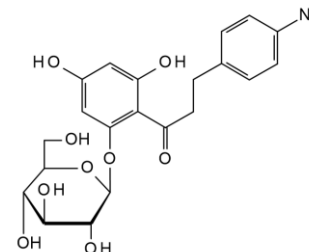
4-Azidophlorizin

- 3-(4-Azidophenyl)-1-[2-(b-D-glucopyranosyloxy)-4,6-dihydroxyphenyl]-1-propanone

[79541-46-1] C₂₁H₂₃N₃O₉ 461.42

EA18107

2mg	\$196.80
5mg	\$357.70
10mg	\$650.40



Refs: Hosang, M, et al, FEBS Lett, 130, 244-248 (1981)

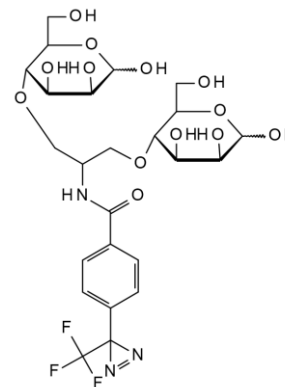
**2-N-[4-(1-Azitrifluoroethyl)benzoyl]-1,3-bis-(D-mannos-4-yloxy)-2-propylamine**

- 4,4'-O-[2-[[4-[3-(Trifluoromethyl)-3H-diazirin-3-yl]benzoyl]amino]-1,3-propanediyl]bis-D-mannose
- ATB-BMPA

[129461-18-3] C₂₄H₃₂F₃N₅O₁₃ 627.52

EA18115

1mg	\$272.60
2mg	\$495.50
5mg	\$900.90



Refs: Holman, G.D, et al, J. Biol. Chem, 265, 30, 18172 (1990); Holman, G.D, et al, Biochem. J, 269, 615 (1990)

**BANI**

see N-Benzoyl-DL-arginine 4-nitroanilide hydrochloride, EB32011 on page 15

BCIG

see 5-Bromo-4-chloro-3-indolyl b-D-galactopyranoside (X-Gal), EB06680 on page 21

BCIP disodium saltsee *5-Bromo-4-chloro-3-indolyl phosphate disodium salt*, EB09823 on page 26**BCIP p-toluidine-salt**see *5-Bromo-4-chloro-3-indolyl phosphate p-toluidine-salt*, EB09335 on page 26**Benzocaine-N-fructoside**see *Benzocaine fructoside*, EB15797 on page 15**Benzocaine fructoside**

• Benzocaine-N-fructoside

[78306-17-9]

EB15797	5mg	\$1050.00
	10mg	\$1680.00
	25mg	\$2887.50

**N-Benzoyl-DL-arginine 4-nitroanilide hydrochloride**

• BANI

[911-77-3] C₁₉H₂₂N₆O₄·HCl 434.88

EB32011	1g	\$63.00
	2g	\$94.50
	5g	\$157.50

**Benzoyl choline chloride**

[2964-09-2]

EB67407	1g	\$50.00
	2g	\$80.00
	5g	\$150.00

**Benzoylcholine chloride**

[2964-09-2]

EB67406	5g	\$40.00
	10g	\$60.00
	25g	\$125.00

**Benzoyl choline iodide**[17518-43-3] C₁₂H₁₈INO₂ 335.18

EB70176	10g	\$50.00
	25g	\$100.00
	50g	\$180.00

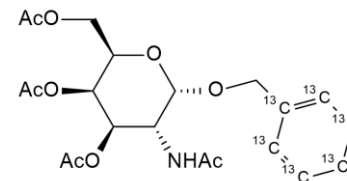
**6-Benzoyl-2-naphthylphosphate disodium salt**

[74144-43-7]

EB67206	1g	\$50.00
	2g	\$80.00
	5g	\$150.00

**Benzyl [¹³C₆] 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-α-D-galactopyranoside**13C₆C₁₅H₂₇NO₉ 443.4

EB64839 Price On Application

**7-Benzyloxy-3H-phenoxazin-3-one**see *Resorufin benzyl ether*, ER31479 on page 146

BigCHAP

BigCHAP

see *N,N-Bis[3-D-gluconamidopropyl]cholamide*, DB18793 on page 16

B

(+)-Biotin 4-amidobenzoic acid sodium salt

- 4-[[5-[(3aS,4S,6aR)-Hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]benzoic acid sodium salt

[102418-74-6] C₁₇H₂₀N₃NaO₄S 385.41

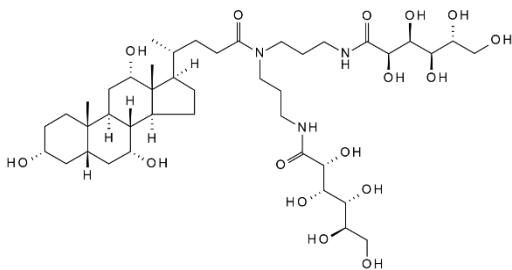
EB18607	10mg	\$50.00
	25mg	\$87.50
	50mg	\$150.00

**2,2-Bis(3'-cyclohexylbutyl) propane-1,3-bis-b-D-maltopyranoside**see *CYMAL-6 neopentyl glycol*, DC31288 on page 43**2,2-Bis(3'-cyclohexylpentyl) propane-1,3-bis-b-D-maltopyranoside**see *CYMAL-7 neopentyl glycol*, DC31289 on page 43**N,N-Bis[3-D-gluconamidopropyl]cholamide**

- (3a,5b,7a,12a)-N,N-Bis[3-(D-gluconoylamino)propyl]-3,7,12-trihydroxy-cholan-24-amide
- BigCHAP

[86303-22-2] C₄₂H₇₅N₃O₁₆ 878.06

DB18793	1g	\$130.00
	5g	\$525.00
	10g	\$900.00



Refs: Hjelmeland, L.M, et al, Anal. Biochem, 130, 485 (1983); Buhler, H, et al, Biochim. et Biophys. Acta, 1075, 206 (1991)

(3a,5b,7a,12a)-N,N-Bis[3-(D-gluconoylamino)propyl]-3,7,12-trihydroxy-cholan-24-amidesee *N,N-Bis[3-D-gluconamidopropyl]cholamide*, DB18793 on page 16**Bis-(4-methylumbelliferyl)phosphate**

• Bis-MUP

[51379-07-8] C₂₀H₁₅O₈P 414.3

EB15696

1g	\$68.30
2g	\$94.50
5g	\$157.50

**Bis(4-methylumbelliferyl)pyrophosphoric acid disodium salt**see *4-Methylumbelliferyl pyrophosphate diester disodium salt*, EM52292 on page 85**Bis-MUP**see *Bis-(4-methylumbelliferyl)phosphate*, EB15696 on page 16**Blue a-gal**see *5-Bromo-3-indolyl a-D-galactopyranoside*, EB06809 on page 28**Blue caprate**see *5-Bromo-3-indolyl decanoate*, EB04034 on page 29**Blue gal**see *5-Bromo-3-indolyl b-D-galactopyranoside*, EB03172 on page 28**Blue glucoside**see *5-Bromo-3-indolyl b-D-glucopyranoside*, EB06829 on page 28**Blue glucuronide CHX**see *5-Bromo-3-indolyl b-D-glucuronide cyclohexylammonium salt*, EB06380 on page 29**Blue Mannoside**see *5-Bromo-3-indolyl a-D-mannopyranoside*, EB06384 on page 28**Blue-nonanoate**see *5-Bromo-3-indolyl nonanoate*, EB04036 on page 29**BNGal**see *6-Bromo-2-naphthyl b-D-galactopyranoside*, EB04969 on page 31

N-*a*-Boc-N-epsilon-cbz-L-lysine 4-nitroanilide

• Boc-Lys(Z)-pNA

[51078-31-0] C₂₅H₃₂N₄O₇ 500.54

EB32013

1g

\$99.80

**Boc-Lys(Z)-pNA**see *N-*a*-Boc-N-epsilon-cbz-L-lysine 4-nitroanilide*, EB32013 on page 17**BODIPY b-D-lactose**see *3-(4,4-Difluoro-5,7-dimethyl-4-bora-3a,4a-diaza-s-indacene-3-propionamido)propyl b-D-lactoside*, ED76433 on page 47**Bola Sopherolipids**

- 2b-O-b-D-glucopyranosyl-b-D-glucopyranosyl
- 17-L-([2b-O-b-D-glucopyranosyl-b-D-glucopyranosyl]-oxy)-cis-9-octadecenoate

C₄₂H₇₄O₂₃ 947.02

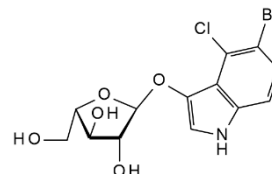
DB58287

Price On Application

**5-Bromo-4-chloro-3-(2-acetamido-2-deoxy-a-D-galactopyranosyloxy)indole**see *5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy-a-D-galactopyranoside*, EB03189 on page 17**5-Bromo-4-chloro-3-(a-L-arabinopyranosyloxy)indole**see *5-Bromo-4-chloro-3-indolyl a-L-arabinopyranoside*, EB03316 on page 17**5-Bromo-4-chloro-3-(a-D-fucopyranosyloxy)indole**see *5-Bromo-4-chloro-3-indolyl a-D-fucopyranoside*, EB03301 on page 19**5-Bromo-4-chloro-3-(a-D-glucopyranosyloxy)indole**see *5-Bromo-4-chloro-3-indolyl a-D-glucopyranoside*, EB05081 on page 19**5-Bromo-4-chloro-3-indolyl a-D-N-acetylneuraminic acid**see *5-Bromo-4-chloro-3-indolyl N-acetyl-a-D-neuraminic acid ammonium salt*, EB07947 on page 25**5-Bromo-4-chloro-3-indolyl a-L-arabinofuranoside**C₁₃H₁₃BrClNO₅ 378.6

EB09409

10mg	\$50.00
25mg	\$95.00
50mg	\$170.00

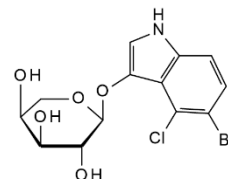
**5-Bromo-4-chloro-3-indolyl a-L-arabinopyranoside**

• 5-Bromo-4-chloro-3-(a-L-arabinopyranosyloxy)indole

C₁₃H₁₃BrClNO₅ 378.6

EB03316

25mg	\$70.00
50mg	\$110.00
100mg	\$195.00

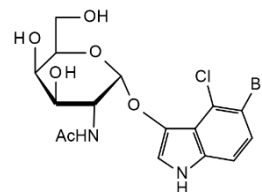
**5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy-a-D-galactopyranoside**

- 5-Bromo-4-chloro-3-(2-acetamido-2-deoxy-a-D-galactopyranosyloxy)indole
- X-alpha-GalNAc

[210110-89-7] C₁₆H₁₈BrClN₂O₆ 449.68

EB03189

10mg	\$550.00
25mg	\$975.00
50mg	\$1850.00



Refs: Zhu, Goldstein, Gene 1994, 137, p309

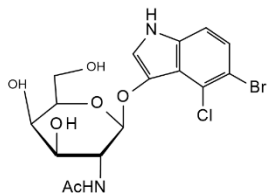


Bromochloroi**5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy-b-D-galactopyranoside**

- 5-Bromo-4-chloro-3-indolyl N-acetyl-b-D-galactosaminide
- X-GalNAc

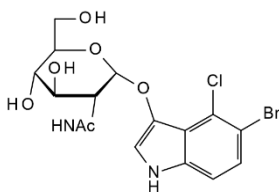
[129572-48-1] C₁₆H₁₈BrClN₂O₆ 449.68

EB05994	100mg	\$60.00
	250mg	\$125.00
	500mg	\$195.00

**5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy-a-D-glucopyranoside**C₁₆H₁₈BrClN₂O₆ 449.68

EB10021

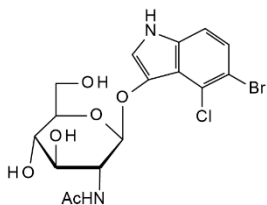
50mg	\$1500.00
100mg	\$2300.00
250mg	\$4500.00

**5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside**

- 5-Bromo-4-chloro-3-indolyl N-acetyl-b-D-glucosaminide
- X-GlcNAc

[4264-82-8] C₁₆H₁₈BrClN₂O₆ 449.68

EB03287	500mg	\$60.00
	1g	\$85.00
	2g	\$150.00

**5-Bromo-6-chloro-3-indolyl-2-acetamido-2-deoxy-a-D-glucopyranoside**

EB43894

Price On Application

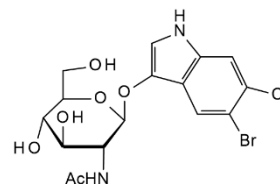
**5-Bromo-6-chloro-3-indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside**

- Magenta-b-D-GlcNAc

[5609-91-6] C₁₆H₁₈BrClN₂O₆ 449.68

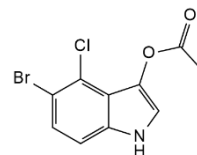
EB03313

100mg	\$85.00
250mg	\$150.00
500mg	\$275.00

**5-Bromo-4-chloro-3-indolyl acetate**[3252-36-6] C₁₀H₇BrClNO₂ 288.52

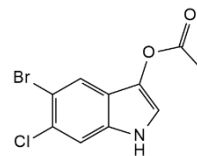
EB10024

100mg	\$48.00
250mg	\$90.00
500mg	\$160.00

**5-Bromo-6-chloro-3-indolyl acetate**[102185-48-8] C₁₀H₇BrClNO₂ 288.52

EB30201

25mg	\$79.00
50mg	\$131.50
100mg	\$205.00



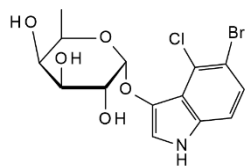
5-Bromo-4-chloro-3-indolyl a-D-fucopyranoside

• 5-Bromo-4-chloro-3-(a-D-fucopyranosyloxy)indole

C₁₄H₁₅BrClNO₅ 392.63

EB03301

25mg	\$70.00
50mg	\$115.00
100mg	\$190.00

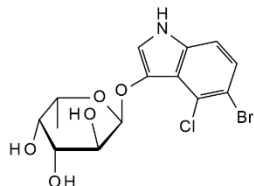
**5-Bromo-4-chloro-3-indolyl a-L-fucopyranoside**

• X-a-L-Fucoside

[171869-92-4] C₁₄H₁₅BrClNO₅ 392.63

EB03266

25mg	\$60.00
50mg	\$95.00
100mg	\$175.00

**5-Bromo-4-chloro-3-indolyl a-D-galactopyranoside**

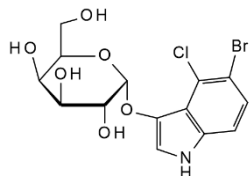
• X-a-Gal

• X-a-D-Galactoside

[107021-38-5] C₁₄H₁₅BrClNO₆ 408.63

EB06819

250mg	\$65.00
500mg	\$95.00
1g	\$175.00



Refs: Fields S, Song O-K, Nature 340, 245-246 (1989); Aho S, Arffman A, Pummi T, et al, Anal. Biochem. 1997, 253, 270-272; Gossrau R, Folia Histochem. Cytobiol. 1990, 28, 129; Gossrau R, Lojda Z, Acta Histochem. 1989, 85, 213

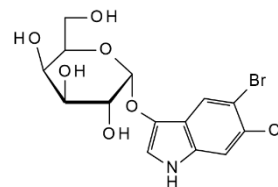
5-Bromo-6-chloro-3-indolyl a-D-galactopyranoside

• Magenta-a-D-galactoside

[198402-60-7] C₁₄H₁₅BrClNO₆ 408.63

EB03261

100mg	\$85.00
250mg	\$175.00
500mg	\$250.00

**5-Bromo-4-chloro-3-indolyl a-D-glucopyranoside**

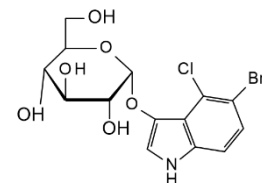
• X-a-D-Glucoside

• 5-Bromo-4-chloro-3-(a-D-glucopyranosyloxy)indole

[108789-36-2] C₁₄H₁₅BrClNO₆ 408.63

EB05081

50mg	\$52.50
100mg	\$100.00
250mg	\$210.00

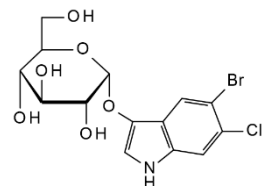
**5-Bromo-6-chloro-3-indolyl a-D-glucopyranoside**

• Magenta-a-D-glucoside

C₁₄H₁₅BrClNO₆ 408.63

EB03231

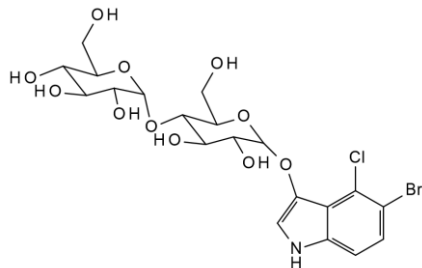
5mg	\$75.00
10mg	\$120.00
25mg	\$225.00



Bromochloroi**5-Bromo-4-chloro-3-indolyl α -D-maltopyranoside**C₂₀H₂₅BrClNO₁₁ 570.77

EB10137

50mg	\$50.00
100mg	\$90.00
250mg	\$200.00

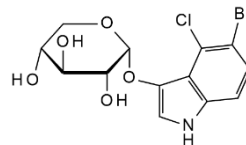
**5-Bromo-4-chloro-3-indolyl α -D-xylopyranoside**

• X-a-D-Xyloside

C₁₃H₁₃BrClNO₅ 378.61

EB08271

1mg	\$50.00
2mg	\$90.00
5mg	\$200.00

**5-Bromo-6-chloro-3-indolyl β -D-cellobiopyranoside**

EB71698

25mg	\$210.00
50mg	\$325.00
100mg	\$485.00

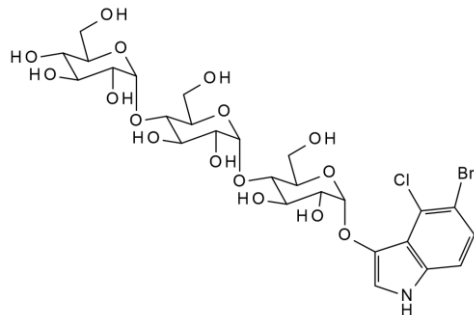
**5-Bromo-4-chloro-3-indolyl α -D-maltotriose**

• X-a-D-Maltotriose

[341972-94-9] C₂₆H₃₅BrClNO₁₆ 732.91

EB03278

1mg	\$180.00
2mg	\$300.00
5mg	\$625.00

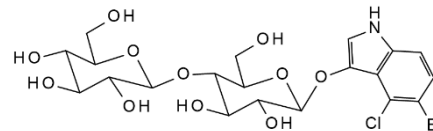
**5-Bromo-4-chloro-3-indolyl β -D-cellobioside**

• X-Cellobiose

[177966-52-8] C₂₀H₂₅BrClNO₁₁ 570.77

EB03309

250mg	\$50.00
500mg	\$70.00
1g	\$125.00

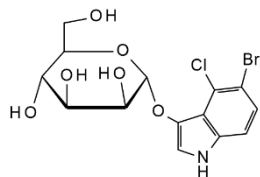
**5-Bromo-4-chloro-3-indolyl α -D-mannopyranoside**

• X-a-Mannose

[125229-64-3] C₁₄H₁₅BrClNO₆ 408.63

EB03269

10mg	\$52.50
25mg	\$94.50
50mg	\$136.50

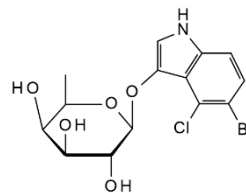
**5-Bromo-4-chloro-3-indolyl β -D-fucopyranoside**

• X-b-D-Fucoside

[17016-46-5] C₁₄H₁₅BrClNO₅ 392.63

EB03272

5mg	\$50.00
10mg	\$80.00
25mg	\$155.00

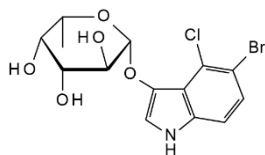


5-Bromo-4-chloro-3-indolyl b-L-fucopyranoside

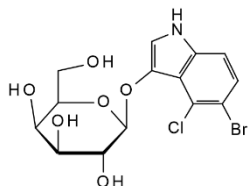
• X-b-L-Fucoside

[125328-84-9] C₁₄H₁₅BrClNO₅ 392.63

EB03292	5mg	\$136.50
	10mg	\$210.00
	25mg	\$409.50

**5-Bromo-4-chloro-3-indolyl b-D-galactopyranoside (X-Gal)**• X-Gal
• X-b-D-Galactoside
• BCIG[7240-90-6] C₁₄H₁₅BrClNO₆ 408.63

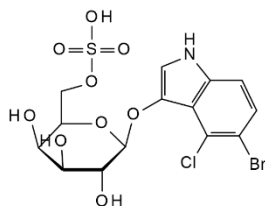
EB06680	5g	\$50.00
	10g	\$80.00
	25g	\$175.00



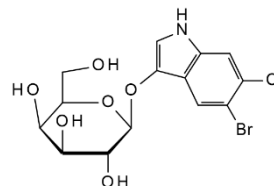
Refs: Weiss DJ, Liggitt D, Clark JG, Human Gene Therapy 1997, 8, 13, p1545-1554; Engler KH, et al, J. Microbiol. Methods 1999, 35, p207; Arakawa H, et al, Anal. Biochem. 1991, 199, p238

5-Bromo-4-chloro-3-indolyl b-D-galactopyranoside-6-sulphateC₁₄H₁₅BrClNO₆S 488.69

EB03191	1mg	\$89.30
	2mg	\$157.50
	5mg	\$262.50

**5-Bromo-6-chloro-3-indolyl b-D-galactopyranoside**• Red b-D-gal
• Magenta gal[93863-88-8] C₁₄H₁₅BrClNO₆ 408.63

EB06383	1g	\$55.00
	2g	\$100.00
	5g	\$195.00



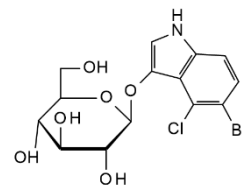
Refs: Horwitz J, et al, J. Med. Chem. 1964, 7, p514; Lojda Z, et al, Histochemie 1973, 34, p361

5-Bromo-4-chloro-3-indolyl b-D-glucopyranoside

• X-b-D-Glucoside

[15548-60-4] C₁₄H₁₅BrClNO₆ 408.63

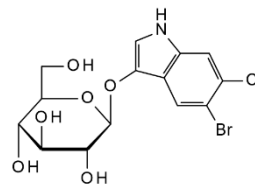
EB03169	1g	\$50.00
	2g	\$80.00
	5g	\$135.00



Refs: Horwitz JP, et al, J. Med. Chem. 1964, 7, 574

5-Bromo-6-chloro-3-indolyl b-D-glucopyranoside• Magenta b-D-Glc
• Magenta b-D-glucoside[93863-89-9] C₁₄H₁₅BrClNO₆ 408.63

EB03298	1g	\$80.00
	2g	\$150.00
	5g	\$260.00



Bromochloroi

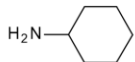
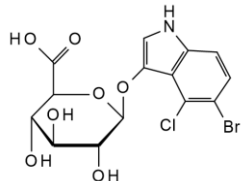
5-Bromo-4-chloro-3-indolyl b-D-glucuronide cyclohexylammonium salt monohydrate

- X-Glucuronide
- X-GlcA

[114162-64-0] C₁₄H₁₃BrClNO₇·C₆H₁₃N·H₂O 539.8

EB04274

500mg	\$75.00
1g	\$120.00
2g	\$230.00



Refs: Jefferson RA, et al, EMBO J. 1987, 6, p3901; Frampton EW, et al, Food Production 1988, 51, p402; Watkins, et al, Environ. Microbiol. 1988, 54, p1874; Schmitz UK, et al, Curr. Genet. 17, 261-264, (1990); Daniell H, Methods Enzymol. 1993, 217, 536-556

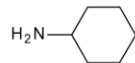
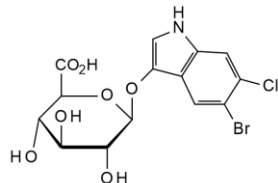
5-Bromo-6-chloro-3-indolyl b-D-glucuronide cyclohexylammonium salt

- Magenta b-D-GlcA CHX
- Magenta b-D-glucuronide CHX

[144110-43-0] C₁₄H₁₃BrClNO₇·C₆H₁₃N 521.79

EB03300

100mg	\$75.00
250mg	\$115.00
500mg	\$195.00



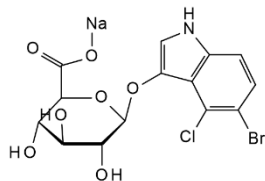
5-Bromo-4-chloro-3-indolyl b-D-glucuronide sodium salt trihydrate

- X-Glucuronide trihydrate

[370100-64-4][129541-41-9] C₁₄H₁₂BrClNNaO₇·3H₂O 498.64

EB03171

250mg	\$55.00
500mg	\$95.00
1g	\$175.00



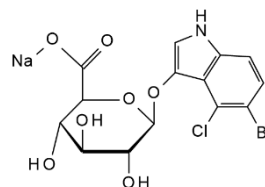
5-Bromo-4-chloro-3-indolyl b-D-glucuronide sodium salt

- X-Glucuronide

[129541-41-9][370100-64-4] C₁₄H₁₂BrClNNaO₇ 444.59

EB03265

250mg	\$55.00
500mg	\$95.00
1g	\$175.00



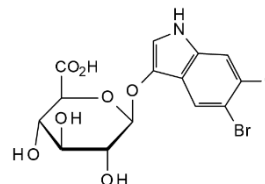
5-Bromo-6-chloro-3-indolyl b-D-glucuronide

- 5-Bromo-6-chloro-3-indolyl-b-D-glucopyranosiduronic acid
- Magenta GlcA

[144110-42-9] C₁₄H₁₃BrClNO₇ 422.61

EB03224

100mg	\$95.00
250mg	\$172.50
500mg	\$265.00

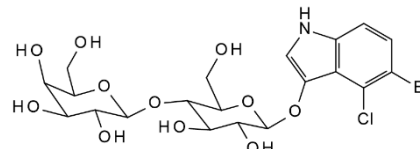


5-Bromo-4-chloro-3-indolyl b-D-lactopyranoside

C₂₀H₂₅BrClNO₁₁ 570.77

EB10039

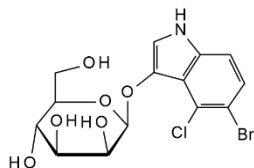
50mg	\$55.00
100mg	\$95.00
250mg	\$175.00



5-Bromo-4-chloro-3-indolyl b-D-mannopyranoside[129787-67-3] C₁₄H₁₅BrClNO₆ 408.63

EB05120

25mg	\$90.00
50mg	\$140.00
100mg	\$250.00

**5-Bromo-4-chloro-3-indolyl butyrate**[129541-43-1] C₁₂H₁₁BrClNO₂ 316.58

EB31398

100mg	\$50.00
250mg	\$80.00
500mg	\$140.00

**5-Bromo-6-chloro-3-indolyl butyrate**C₁₂H₁₁BrClNO₂ 316.58

EB30261

50mg	\$210.00
100mg	\$315.00
250mg	\$525.00

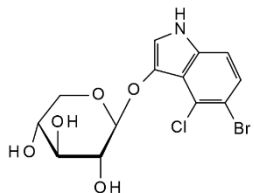
**5-Bromo-4-chloro-3-indolyl b-D-xylopyranoside**

• X-b-D-Xyloside

[207606-55-1] C₁₃H₁₃BrClNO₅ 378.6

EB03248

100mg	\$50.00
250mg	\$85.00
500mg	\$125.00

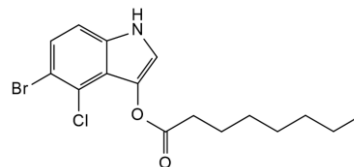
**5-Bromo-4-chloro-3-indolyl caprylate**

- X-Caprylate
- 5-Bromo-4-chloro-3-indoxyl octanoate

[129541-42-0] C₁₈H₁₉BrClNO₂ 372.68

EB04037

500mg	\$80.00
1g	\$140.00
2g	\$220.00

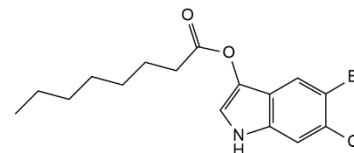
**5-Bromo-6-chloro-3-indolyl caprylate**

- Magenta caprylate
- 5-Bromo-6-chloro-3-indoxyl octanoate

[209347-94-4] C₁₈H₁₉BrClNO₂ 372.68

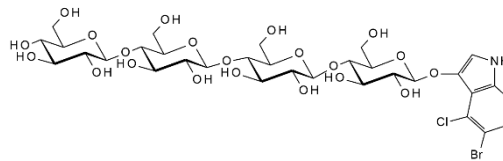
EB10515

500mg	\$50.00
1g	\$90.00
2g	\$170.00

**5-Bromo-4-chloro-1H-indol-3-yl-b-D-cellobiotetraoside**C₃₂H₄₅BrClNO₂₁ 895.05

EB35290

500mg	\$420.00
1g	\$682.50
2g	\$1050.00

**5-Bromo-4-chloro-1H-indol-3-yl ester tetradecanoic acid**

see 5-Bromo-4-chloro-3-indolyl myristate, EB146389 on page 24

Bromochloroi**5-Bromo-4-chloro-3-indolyl 5-O-feruloyl α -L-arabinofuranoside**

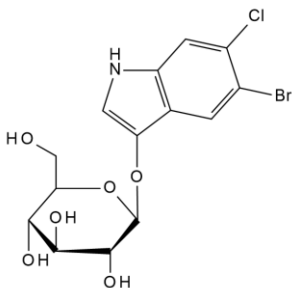
EB09506

Price On Application

**5-Bromo-6-chloro-3-indolyl- α -D-glucopyranoside**

EB43895

Price On Application

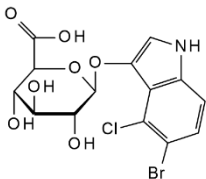
**5-Bromo-6-chloro-3-indolyl- β -D-glucopyranosiduronic acid**see 5-Bromo-6-chloro-3-indolyl β -D-glucuronide, EB03224 on page 22**5-Bromo-4-chloro-1H-indol-3-yl- β -D-glucuronide**

• X-Glucuronide

[18656-89-8] C₁₄H₁₃BrClNO₇ 422.61

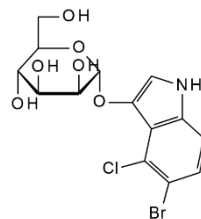
Price On Application

EB03256

**5-Bromo-6-chloro-1H-indol-3-yl- α -D-mannopyranoside**• Magenta- α -Mannose[1384197-50-5] C₁₄H₁₃BrClNO₆ 408.63

EB30998

50mg	\$120.00
100mg	\$195.00
200mg	\$340.00

**5-Bromo-4-chloro-3-indolyl myristate**

• 5-Bromo-4-chloro-1H-indol-3-yl ester tetradecanoic acid

[341972-95-0] C₂₂H₃₁BrClNO₂ 456.84

EB146389

1g	\$295.00
2g	\$550.00
5g	\$1125.00

**5-Bromo-4-chloro-3-indolyl N-acetyl- β -D-galactosaminide**see 5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy- β -D-galactopyranoside, EB05994 on page 18**5-Bromo-4-chloro-3-indolyl N-acetyl- β -D-glucosaminide**see 5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy- β -D-glucopyranoside, EB03287 on page 18

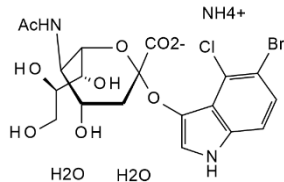
5-Bromo-4-chloro-3-indolyl N-acetyl-a-D-neuraminic acid ammonium salt

- X-Sialic acid
- X-Nana
- 5-Bromo-4-chloro-3-indolyl a-D-N-acetylneuraminic acid

C₁₉H₂₂BrClN₂O₉·NH₃·2H₂O 590.8

EB07947

5mg	\$183.80
10mg	\$336.00
25mg	\$735.00

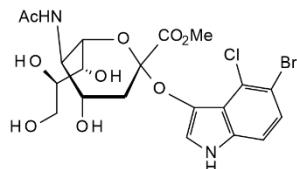


Refs: Fujii I, Iwabuchi Y, Teshima T, Shiba T, Kikuchi M, Bioorg. Med. Chem, 1993, 1, p147

5-Bromo-4-chloro-3-indolyl N-acetyl-a-D-neuraminic acid methyl esterC₂₀H₂₄BrClN₂O₉ 551.77

EB06832

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



Refs: Fujii I, et al, Bioorg. Med. Chem. 1993, 1, p147

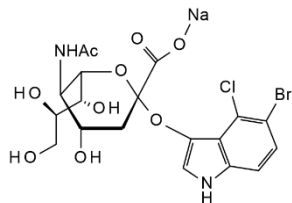
5-Bromo-4-chloro-3-indolyl N-acetyl-a-D-neuraminic acid sodium salt

- X-NANA.Na

[160369-85-7] C₁₉H₂₁BrClN₂O₉·Na 559.72

EB02506

10mg	\$75.00
25mg	\$120.00
50mg	\$190.00



Refs: Fujii I, et al, Bioorg. Med. Chem. 1993, 1, p147

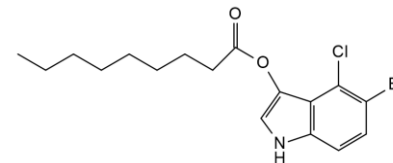
5-Bromo-4-chloro-3-indolyl nonanoate

- X-Nonanoate

[133950-77-3] C₁₇H₂₁BrClNO₂ 386.71

EB05702

100mg	\$75.00
250mg	\$125.00
500mg	\$200.00

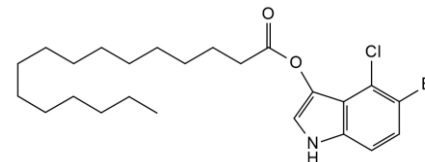
**5-Bromo-4-chloro-3-indolyl palmitate**

- X-Pal

[341972-98-3] C₂₄H₃₅BrClNO₂ 484.9

EB30756

25mg	\$60.00
50mg	\$105.00
100mg	\$180.00

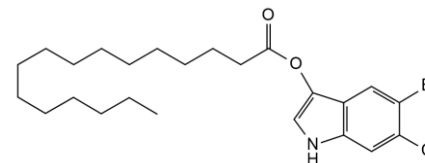
**5-Bromo-6-chloro-3-indolyl palmitate**

- Magenta-Pal

[209347-97-7] C₂₄H₃₅BrClNO₂ 484.9

EB30757

100mg	\$158.00
250mg	\$262.50
500mg	\$315.00



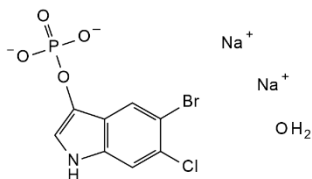
Bromochloroi

5-Bromo-6-chloro-3-indolyl phosphate disodium salt monohydrate

• Magenta phosphate sodium salt

[404366-59-2] C₈H₄BrClNO₄PNa₂·H₂O 388.45

EB09298	1g	\$65.00
	2g	\$120.00
	5g	\$275.00

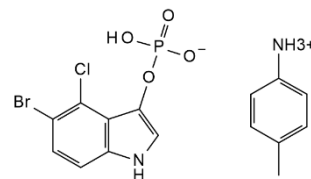


5-Bromo-4-chloro-3-indolyl phosphate p-toluidine-salt

• BCIP p-toluidine-salt

[6578-06-9] C₈H₅BrClNO₄P·C₇H₉N 433.63

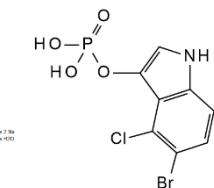
EB09335	1g	\$65.00
	2g	\$110.00
	5g	\$175.00



5-Bromo-4-chloro-1H-indol-3-yl phosphate disodium salt sesquihydrate

[304656-10-8] C₈H₄BrClNO₄P·2Na·H₂O 388.45

EB52233 Price On Application

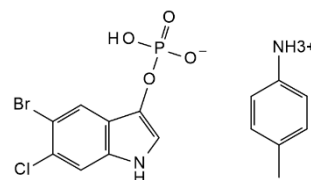


5-Bromo-6-chloro-3-indolyl phosphate p-toluidine salt

• Magenta phosphate p-toluidine salt

[6769-80-8] C₈H₅BrClNO₄P·C₇H₉N 433.63

EB09338	1g	\$65.00
	2g	\$100.00
	5g	\$210.00

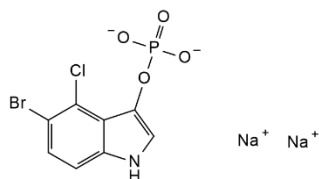


5-Bromo-4-chloro-3-indolyl phosphate disodium salt

• BCIP disodium salt

[102185-33-1] C₈H₄BrClNO₄Na₂P 370.43

EB09823	1g	\$65.00
	2g	\$110.00
	5g	\$250.00

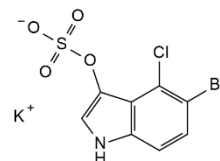


5-Bromo-4-chloro-3-indolyl sulfate potassium salt

• X-sulfate K

[6578-07-0] C₈H₄BrClKNO₄S 364.64

EB09561	50mg	\$50.00
	100mg	\$85.00
	250mg	\$150.00



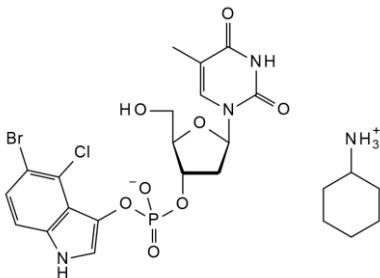
5-Bromo-4-chloro-3-indolyl-D-thymidine-3'-phosphate cyclohexylammonium salt

- 5-Bromo-4-chloro-3-indolyl thymidine-3'-phosphate cyclohexylammonium salt
- X-thymidine-3'-phosphate CHA salt

[341973-00-1] C₁₈H₁₇BrClN₃O₈P·C₆H₁₁N 649.86i

EB03303

2mg	\$50.00
5mg	\$100.00
10mg	\$180.00

**5-Bromo-4-chloro-3-indoxyl-1-acetate**

- 1-Acetyl-5-bromo-4-chloro-1H-indol-3-ol
- N-Acetyl-5-bromo-4-chloro-3-hydroxy-1H-indole

[125328-76-9] C₁₀H₇BrClNO₂ 288.52

EB56757

50mg	\$74.50
100mg	\$119.00
250mg	\$150.00

**5-Bromo-6-chloro-3-indoxyl butyrate**

- Magenta(tm)-butyrate

[873295-29-5] 316.58

EB56758

Price On Application

**5-Bromo-4-chloro-3-indoxyl choline phosphate**

- X-Phos-choline

[439809-43-5] C₁₃H₁₇BrClN₂O₄P 411.62

EB56755

Price On Application

**5-Bromo-6-chloro-3-indoxyl nonanoate**

- Magenta(tm)-nonanoate

[682802-80-8] 386.71

EB56759

Price On Application

**5-Bromo-4-chloro-3-indoxyl octanoate**

see 5-Bromo-4-chloro-3-indolyl caprylate, EB04037 on page 23

5-Bromo-6-chloro-3-indoxyl octanoate

see 5-Bromo-6-chloro-3-indolyl caprylate, EB10515 on page 23

5-Bromo-4-chloro-3-indoxyl sulfate p-toluidine salt

- X-Sulfate p-toluidine salt

[6581-23-3] 433.71

EB56756

Price On Application

**5-Bromo-4-chloro-3-indoxyl thymidine-3'-phosphate cyclohexylammonium salt**

see 5-Bromo-4-chloro-3-indolyl-D-thymidine-3'-phosphate cyclohexylammonium salt, EB03303 on page 27

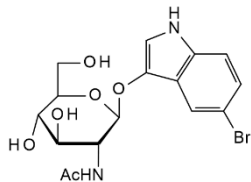
5-Bromo-3-(a-D-galactopyranosyloxy)indole

see 5-Bromo-3-indolyl a-D-galactopyranoside, EB06809 on page 28

Bromogalacto**7-Bromo-3-(b-D-galactopyranosyloxy)-N-(2-methoxyphenyl)-2-naphthalenecarboxamide**see *Naphthol AS-BI b-D-galactopyranoside*, EN03280 on page 89**5-Bromo-3-indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside**[58225-98-2] C₁₆H₁₉BrN₂O₆ 415.24

EB03249

50mg	\$65.00
100mg	\$105.00
250mg	\$210.00

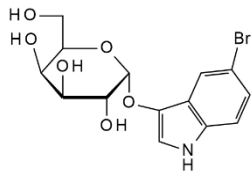
**5-Bromo-3-indolyl a-D-galactopyranoside**

- Blue a-gal
- 5-Bromo-3-(a-D-galactopyranosyloxy)indole

C₁₄H₁₆BrNO₆ 374.18

EB06809

25mg	\$75.00
50mg	\$120.00
100mg	\$180.00

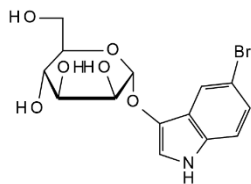
**5-Bromo-3-indolyl a-D-mannopyranoside**

- Blue Mannoside

C₁₄H₁₆BrNO₆ 374.18

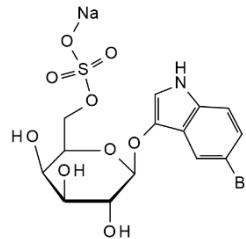
EB06384

10mg	\$141.80
25mg	\$210.00
50mg	\$315.00

**5-Bromo-3-indolyl b-D-galactopyranoside-6-sulfate sodium salt**C₁₄H₁₅BrNNaO₉S 476.23

EB03281

5mg	\$95.00
10mg	\$150.00
25mg	\$315.00

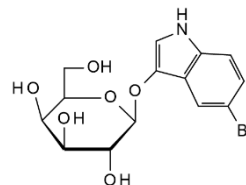
**5-Bromo-3-indolyl b-D-galactopyranoside**

- Blue gal

[97753-82-7] C₁₄H₁₆BrNO₆ 374.18

EB03172

500mg	\$60.00
1g	\$90.00
2g	\$160.00



Refs: Weitzman D, Barra JB, Segretain J, et al, Development Cambridge 2000, Vol127, Pt1, p143-153

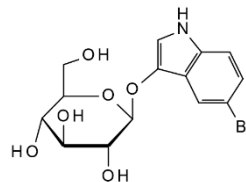
5-Bromo-3-indolyl b-D-glucopyranoside

- Blue glucoside

[16934-09-1] C₁₄H₁₆BrNO₆ 374.18

EB06829

25mg	\$85.00
50mg	\$150.00
100mg	\$200.00

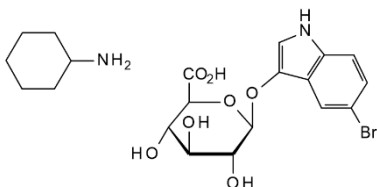


5-Bromo-3-indolyl b-D-glucuronide cyclohexylammonium salt

• Blue glucuronide CHX

[199326-16-4][18656-96-7] C₁₄H₁₄BrNO₇·C₆H₁₃N 487.34

EB06380	50mg	\$95.00
	100mg	\$150.00
	250mg	\$250.00

**5-Bromo-3-indolyl caprylate**

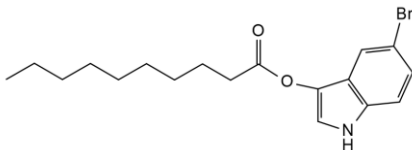
see 5-Bromo-3-indolyl decanoate, EB04034 on page 29

5-Bromo-3-indolyl caprylate

see 5-Bromo-3-indolyl caprylate, EB56754 on page 30

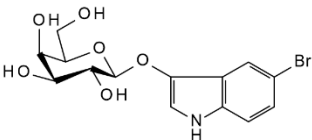
5-Bromo-3-indolyl decanoate• Blue caprate
• 5-Bromo-3-indolyl caprylate[133950-71-7] C₁₈H₂₄BrNO₂ 366.29

EB04034	50mg	\$94.50
	100mg	\$158.00
	250mg	\$210.00

**5-Bromo-3-indolyl-a-D-galactopyranoside**

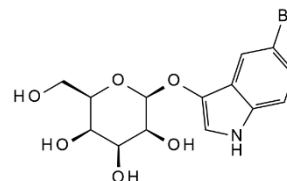
EB43890

Price On Application

**5-Bromo-3-indolyl-b-D-glucopyranoside**

EB43892

Price On Application

**5-Bromo-3-indolyl nonanoate**

• Blue-nonanoate

[133950-70-6] C₁₇H₂₂BrNO₂ 352.27

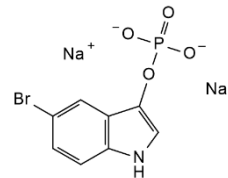
EB04036	100mg	\$100.00
	250mg	\$170.00
	500mg	\$265.00



Refs: Agban A, et al, Eur. J. Med. Chem. 1990, 25, p697

5-Bromo-3-indolyl phosphate disodium salt[16036-59-2] C₈H₅BrNO₄PNa₂ 335.99

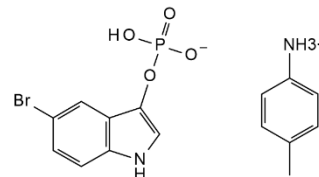
EB10337	250mg	\$75.00
	500mg	\$125.00
	1g	\$195.00

**5-Bromo-3-indolyl phosphate p-toluidine salt**

• Lapis phosphate

[80008-69-1] C₈H₈BrNO₄P·C₇H₁₀N 399.18

EB09358	250mg	\$90.00
	500mg	\$155.00
	1g	\$210.00



Bromoindoxyl**5-Bromo-3-indoxyl caprylate**

- 5-Bromo-3-indoxyl caprylate
- 5-Bromo-3-indoxyl octanoate

[133950-69-3] 338.24

EB56754

Price On Application

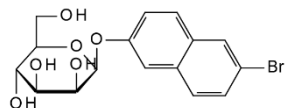
**5-Bromo-3-indoxyl octanoate**

see 5-Bromo-3-indoxyl caprylate, EB56754 on page 30

6-Bromo-2-naphthalenyl-β-D-mannopyranoside[322474-07-7] C₁₆H₁₇BrO₆ 385.21

EB03267

Price On Application

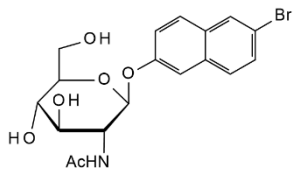
**6-Bromo-2-naphthyl 2-acetamido-2-deoxy-β-D-glucopyranoside**

- 6-Bromo-2-naphthyl N-acetyl-α-D-glucosaminide

[212069-27-7] C₁₈H₂₀BrNO₆ 426.26

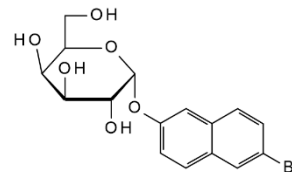
EB06861

250mg	\$80.00
500mg	\$135.00
1g	\$236.30

**6-Bromo-2-naphthyl α-D-galactopyranoside**[25997-59-5] C₁₆H₁₇BrO₆ 385.21

EB03242

50mg	\$89.50
100mg	\$158.00
250mg	\$262.50

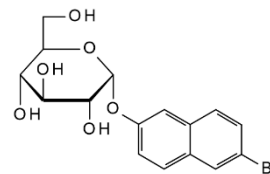


Refs: Tsou KC, Su HCF, Anal. Biochem. 1964, 8, p415

6-Bromo-2-naphthyl α-D-glucopyranoside[25696-57-5] C₁₆H₁₇BrO₆ 385.21

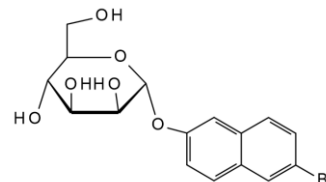
EB03307

100mg	\$60.00
250mg	\$125.00
500mg	\$200.00

**6-Bromo-2-naphthyl α-D-mannopyranoside**[28541-84-6] C₁₆H₁₇BrO₆ 385.21

EB05122

50mg	\$84.00
100mg	\$132.00
250mg	\$237.50



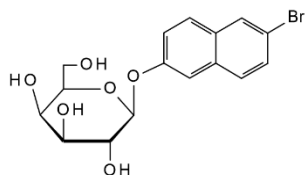
6-Bromo-2-naphthyl b-D-galactopyranoside

• BNGal

[15572-30-2] C₁₆H₁₇BrO₆ 385.21

EB04969

1g	\$99.80
2g	\$147.00
5g	\$262.50

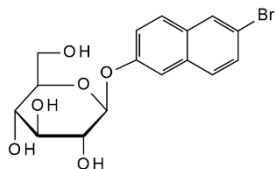


Refs: Mutwakil MHAZ, Reader JP, Holdich DM, et al, Arch. Envir. Contam. Toxicol. 1997, Vol32, No2, p146-153

6-Bromo-2-naphthyl b-D-glucopyranoside[15548-61-5] C₁₆H₁₇BrO₆ 385.21

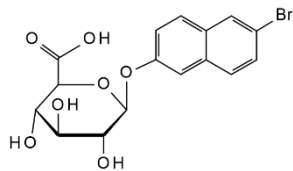
EB03284

1g	\$60.00
2g	\$110.00
5g	\$235.00

**6-Bromo-2-naphthyl b-D-glucuronide**[22720-35-0] C₁₆H₁₅BrO₇ 399.2

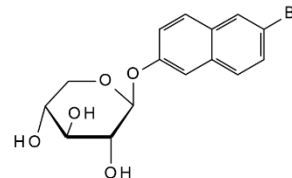
EB03245

25mg	\$89.50
50mg	\$147.00
100mg	\$237.00

**6-Bromo-2-naphthyl b-D-xylopyranoside**[69594-75-8] C₁₅H₁₅BrO₅ 355.18

EB05123

500mg	\$95.00
1g	\$150.00
2g	\$250.00

**6-Bromo-2-naphthyl-a-D-mannopyranoside**

EB66432

50mg	\$60.00
100mg	\$100.00
250mg	\$200.00

**6-Bromo-2-naphthyl N-acetyl-a-D-glucosaminide**

see 6-Bromo-2-naphthyl 2-acetamido-2-deoxy-b-D-glucopyranoside, EB06861 on page 30

6-Bromo-2-naphthyl-b-D-xylopyranoside

EB67558

250mg	\$75.00
500mg	\$125.00
1g	\$200.00

**2-Bromo-4-nitrophenyl b-D-galactopyranoside**C₁₂H₁₄BrNO₈ 380.15

EB15718

50mg	\$66.00
100mg	\$116.00
250mg	\$210.00



Bromonitroph**4-Bromo-2-nitrophenyl b-D-galactopyranoside**C₁₂H₁₄BrNO₅ 380.15

EB15719

50mg	\$66.00
100mg	\$116.00
250mg	\$210.00

**Butanoic acid 2-naphthyl ester**see *2-Naphthyl butyrate*, EN10875 on page 94**Butyl 4-nitrophenyl hexylphosphonate**

EB46651

Price On Application

**Butyric acid 4-nitrophenyl ester**see *4-Nitrophenyl butyrate*, EN15605 on page 117**Butyrylcholine perchlorate**

[20292-68-6]

EB66779

500mg	\$50.00
1g	\$85.00
2g	\$178.00

**Calcium 2-naphthylphosphate**

• 2-Naphthylphosphate calcium salt

[305808-24-6]

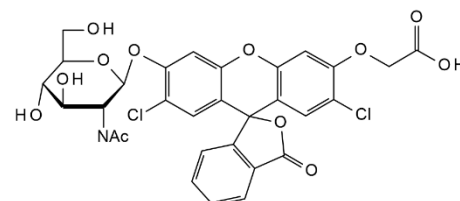
EC71044

5g	\$50.00
10g	\$80.00
25g	\$175.00

**X-Caprylate**see *5-Bromo-4-chloro-3-indolyl caprylate*, EB04037 on page 23**6'-(O-(Carboxymethyl))-2',7'-dichlorofluoroscein 3'-(O-(N-acetyl-b-D-glucosamide))**C₃₀H₂₅Cl₂NO₁₂ 662.44

EC03223

1mg	\$89.30
2mg	\$168.00
5mg	\$336.00

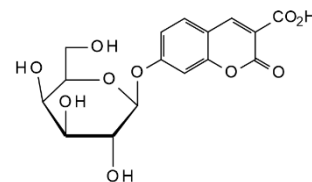
**3-Carboxyumbelliferyl b-D-galactopyranoside**

• CUG

[64664-99-9] C₁₆H₁₆O₁₀ 368.28

EC03236

2mg	\$80.00
5mg	\$125.00
10mg	\$215.00

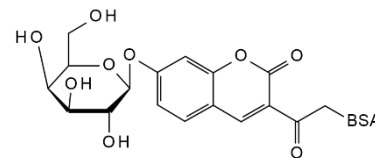


Refs: Nazarenko DA, Dertinger SD, Gasiewicz TA, , Biotechniques, 2001, 30, p776, p780,

3-Carboxyumbelliferyl b-D-galactoside BSA conjugate

EC04407

1mg	\$89.30
2mg	\$157.50
5mg	\$315.00



Refs: Burd J.F., , Methods Enzymol. 1981, 74(C), p79-87

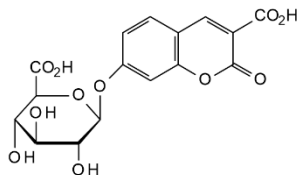


B

3-Carboxyumbelliferyl b-D-glucuronide[216672-17-2] C₁₆H₁₄O₁₁ 382.28

EC03238

1mg	\$45.00
2mg	\$60.00
5mg	\$95.00

**Caspase substrate**

• Z-Ile-Glu-Thr-Asp-AFC

[219138-02-0] C₃₇H₄₂F₃N₅O₁₃ 821.75

EC58694

5mg	\$145.00
10mg	\$280.00
25mg	\$650.00

**Cathomycin**see *Novobiocin sodium salt*, EN15775 on page 135**X-Cellobiose**see *5-Bromo-4-chloro-3-indolyl b-D-cellobioside*, EB03309 on page 20**Celluchrome**

• Remazol brilliant blue carboxymethyl cellulose

EC67137

1g	\$50.00
2g	\$90.00
5g	\$200.00

**CF3MU-Neu5Ac**see *4-Trifluoromethylumbelliferyl a-D-N-acetylneuraminic acid*, ET04875 on page 152**Chitin azure**

EC71613

100mg	\$95.00
250mg	\$175.00
500mg	\$300.00

**N-Chloroacetyl-L-tyrosine**

[1145-56-8]

EC66562

5g	\$60.00
10g	\$100.00
25g	\$200.00

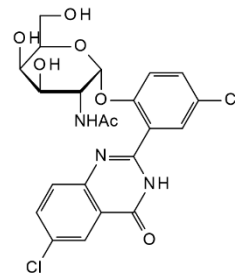
**6-Chloro-3-(b-D-galactopyranosyloxy)indole**see *6-Chloro-3-indolyl b-D-galactopyranoside*, EC05439 on page 35**2-(5'-Chloro-2'-hydroxyphenyl)-6-chloro-4(3H)-quinazolinonyl a-D-N-acetylglactosamine**

• ELF-a-D-GalNAc

C₂₂H₂₁Cl₂N₃O₇ 510.32

EC33311

50mg	\$3250.00
100mg	\$5400.00



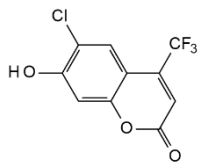
Chlorohydrox

6-Chloro-7-hydroxy-4-(trifluoromethyl)coumarin

• 6-Chloro-4-trifluoromethylumbelliferone

[119179-66-7] C₁₀H₄ClF₃O₃ 264.58

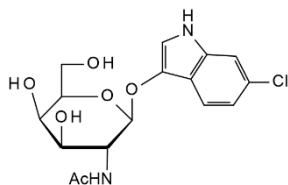
EC29601	1g	\$115.50
	2g	\$189.00
	5g	\$393.80



6-Chloro-3-indolyl 2-acetamido-2-deoxy-b-D-galactopyranoside

• 6-Chloro-3-indolyl-N-acetyl-b-D-galactosaminide
• Salmon-b-D-GalNAc[501432-61-7] C₁₈H₁₉ClN₂O₆ 370.78

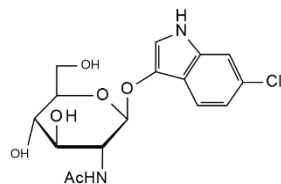
EC03260	10mg	\$89.30
	25mg	\$157.50
	50mg	\$236.50



6-Chloro-3-indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside

• 6-Chloro-3-indolyl N-acetyl-b-D-glucosaminide
• Salmon-b-D-GlcNAc[156117-44-1] C₁₈H₁₉ClN₂O₆ 370.78

EC05996	10mg	\$63.00
	25mg	\$100.00
	50mg	\$157.50



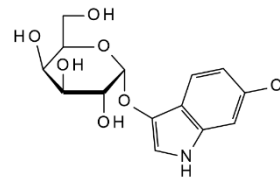
6-Chloro-3-indolyl-N-acetyl-b-D-galactosaminide

see 6-Chloro-3-indolyl 2-acetamido-2-deoxy-b-D-galactopyranoside, EC03260 on page 34

6-Chloro-3-indolyl a-D-galactopyranoside

[198402-61-8] C₁₄H₁₆ClNO₆ 329.73

EC06166	250mg	\$90.00
	500mg	\$150.00
	1g	\$210.00

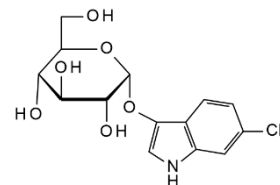


6-Chloro-3-indolyl a-D-glucopyranoside

• Salmon a-glucoside

[467214-46-6] C₁₄H₁₆ClNO₆ 329.73

EC03263	25mg	\$50.00
	50mg	\$90.00
	100mg	\$150.00

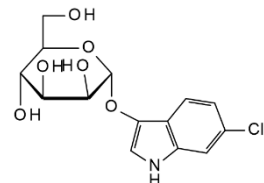


6-Chloro-3-indolyl a-D-mannopyranoside

• Rose a-mannoside

[425427-88-9] C₁₄H₁₆ClNO₆ 329.73

EC03270	100mg	\$65.00
	250mg	\$115.00
	500mg	\$195.00



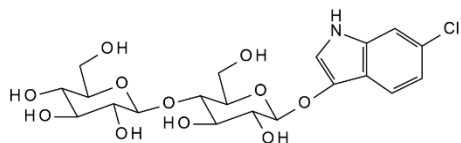
6-Chloro-3-indolyl b-D-cellobioside

• Salmon-cellobioside

[425427-87-8] C₂₀H₂₆ClNO₁₁ 491.87

EC03250

50mg	\$65.00
100mg	\$110.00
250mg	\$200.00

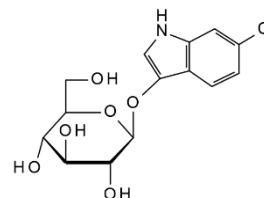
**6-Chloro-3-indolyl b-D-glucopyranoside**

• Rose glucoside

[159954-28-6] C₁₄H₁₆ClNO₆ 329.73

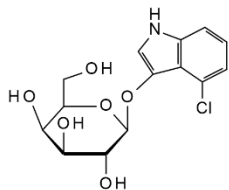
EC03297

250mg	\$80.00
500mg	\$135.00
1g	\$180.00

**4-Chloro-3-indolyl b-D-galactopyranoside**[135313-63-2] C₁₄H₁₆ClNO₆ 329.73

EC06387

50mg	\$79.00
100mg	\$105.00
250mg	\$157.50

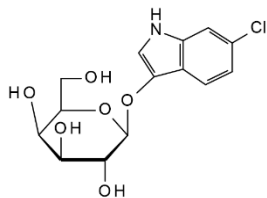
**6-Chloro-3-indolyl b-D-galactopyranoside**

- Salmon Gal
- 6-Chloro-3-(b-D-galactopyranosyloxy)indole

[138182-21-5] C₁₄H₁₆ClNO₆ 329.73

EC05439

500mg	\$50.00
1g	\$70.00
2g	\$130.00

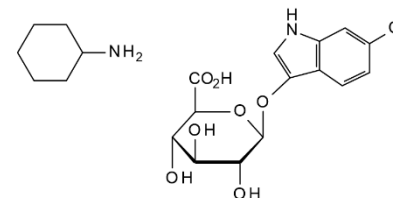
**6-Chloro-3-indolyl b-D-glucuronide cyclohexylammonium salt**

• Rose glucuronide CHX

[138182-20-4] C₁₄H₁₄ClNO₇·C₆H₁₃N 442.89

EC06604

250mg	\$75.00
500mg	\$100.00
1g	\$170.00

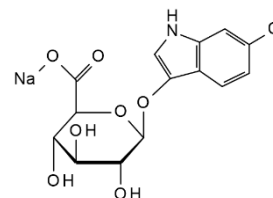
**6-Chloro-3-indolyl b-D-glucuronide sodium salt**

• Rose glucuronide Na

[216971-56-1] C₁₄H₁₃ClNO₇ 365.7

EC03291

50mg	\$90.00
100mg	\$120.00
250mg	\$195.00



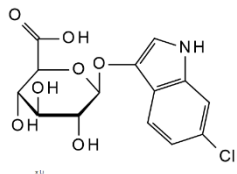
Chloroindoly

6-Chloro-1H-indol-3-yl b-D-glucuronide

[138182-19-1] C₁₄H₁₄ClNO₇ 343.72

EC63887

5mg	\$65.00
10mg	\$95.00
25mg	\$200.00



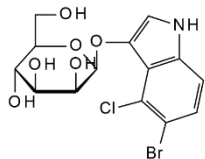
6-Chloro-1H-indol-3-yl b-D-mannopyranoside

• Salmon mannoside

[796842-57-4] C₁₄H₁₆ClNO₆ 329.73

EC15884

Price On Application



6-Chloro-3-indolyl butyrate

• Salmon-butyrate

[159954-34-4] C₁₂H₁₂ClNO₂ 237.68

EC32007

Price On Application

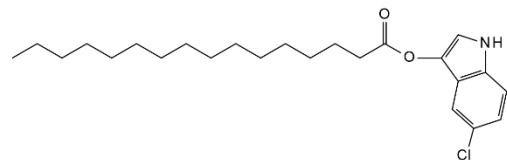


6-Chloro-1H-indol-3-yl hexadecanoate

[209347-96-6] C₂₄H₃₆ClNO₂ 406

EC32008

10mg	\$178.50
25mg	\$262.50



6-Chloro-3-indolyl N-acetyl-b-D-glucosaminide

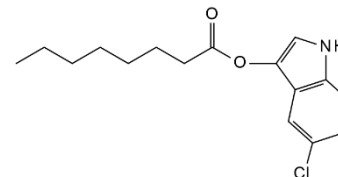
see 6-Chloro-3-indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside, EC05996 on page 34

6-Chloro-1H-indol-3-yl octanoate

[159954-35-5] C₁₆H₂₀ClNO₂ 293.79

EC32006

1g	\$236.30
2g	\$409.50
5g	\$918.80



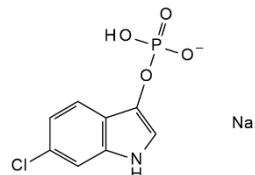
6-Chloro-3-indolyl phosphate disodium salt

• Salmon-phosphate

[1226578-81-9][154201-83-9] C₈H₅ClNNa₂O₄P 291.54

EC31184

250mg	\$157.50
500mg	\$265.00
1g	\$472.50

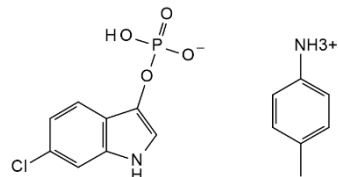


6-Chloro-3-indolyl phosphate p-toluidine salt

[159954-33-3] C₈H₆ClNO₄P·C₇H₁₀N 354.73

EC09439

250mg	\$110.00
500mg	\$175.00
1g	\$250.00



6-Chloro-3-indoxyl-3-acetate[114305-99-6] C₁₀H₈ClNO₂ 209.63

EC32010

Price On Application

**4-Chloro-3-Indoxyl-1,3-diacetate**[109014-54-2] C₁₂H₁₀ClNO₃ 251.67

EC56762

Price On Application

**6-Chloro-3-indoxyl nonanoate**[133950-72-8] C₁₇H₂₂ClNO₂ 307.81

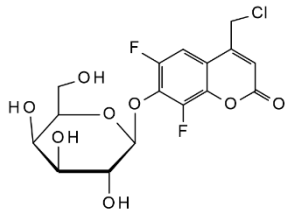
EC32009

Price On Application

**4-Chloromethyl-6,8-difluorumbelliferyl b-D-galactopyranoside**[215868-46-5] C₁₆H₁₅ClF₂O₈ 408.74

EC06806

1mg	\$84.00
2mg	\$136.50
5mg	\$262.50

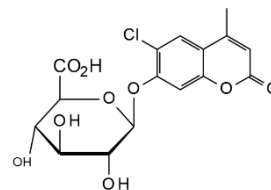
**6-Chloro-4-methylumbelliferyl b-D glucuronide**

• CMUG

[947175-17-9] C₁₆H₁₅ClO₉ 386.74

EC16006

10mg	\$50.00
25mg	\$97.50
50mg	\$157.50

**6-Chloro-4-methylumbelliferyl b-xylobioside**[1867162-18-2] C₂₀H₂₃ClO₁₁ 474.84

EC76432

Price On Application

**4-Chloro-1-naphthaleneol**

see 4-Chloro-1-naphthol, EC10647 on page 37

4-Chloronaphthalen-1-ol

see 4-Chloro-1-naphthol, EC10647 on page 37

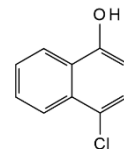
4-Chloro-1-naphthol

- 4-Chloronaphthalen-1-ol
- 4-Chloro-1-naphthaleneol

[604-44-4] C₁₀H₇ClO 178.61

EC10647

25g	\$60.00
50g	\$90.00
100g	\$165.00



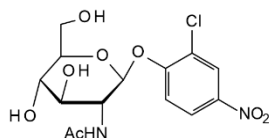
Chloronitrop

2-Chloro-4-nitrophenyl 2-acetamido-2-deoxy- α -D-glucopyranoside

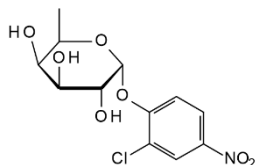
EC43847	500mg	\$1250.00
	1g	\$1820.00
	2g	\$2860.00

2-Chloro-4-nitrophenyl 2-acetamido-2-deoxy- β -D-glucopyranoside[103614-82-0] C₁₄H₁₇ClN₂O₈ 376.75

EC06385	250mg	\$105.00
	1g	\$445.00
	2g	\$595.00

2-Chloro-4-nitrophenyl α -D-fucopyranoside[35743-28-1] C₁₂H₁₄ClNO₇ 319.69

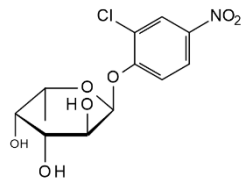
EC03192	1mg	\$47.30
	2mg	\$63.00
	5mg	\$131.30



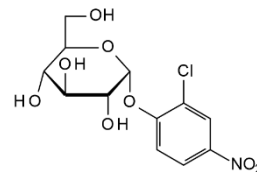
Refs: Gu G, et al, Carbohydr. Res. 2003, 338, p1603

2-Chloro-4-nitrophenyl α -L-fucopyranoside[157843-41-9] C₁₂H₁₄ClNO₇ 319.69

EC05990	100mg	\$58.00
	250mg	\$100.00
	500mg	\$160.00

2-Chloro-4-nitrophenyl α -D-glucopyranoside[119047-14-2] C₁₂H₁₄ClNO₈ 335.69

EC03193	50mg	\$131.50
	100mg	\$231.00
	250mg	\$500.00



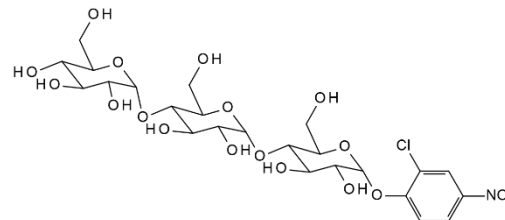
Refs: Montgomery EM, et al, JACS 1942, 64, p690

2-Chloro-4-nitrophenyl α -D-maltotrioside

• CNPG3

[118291-90-0] C₂₄H₃₄ClNO₁₈ 659.98

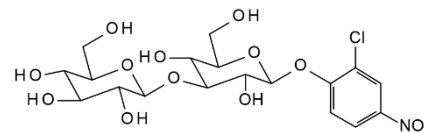
EC09787	50mg	\$63.00
	100mg	\$100.00
	250mg	\$185.00

2-Chloro-4-nitrophenyl α -D-mannopyranoside[65446-24-4] C₁₂H₁₄ClNO₈ 335.69

EC15457	500mg	\$525.00
	1g	\$795.00
	2g	\$1400.00

2-Chloro-4-nitrophenyl β -D-cellobioside[135743-28-1] C₁₈H₂₄ClNO₁₃ 497.83

EC01941	10mg	\$63.00
	25mg	\$100.00
	50mg	\$184.00



Refs: Kandra L, Gyemant G, Farkas E, Liptak A, Carbohydr. Res. 1997, 298, p237

2-Chloro-4-nitrophenyl b-D-celotriosideC₂₄H₃₅ClNO₁₈ 660.98

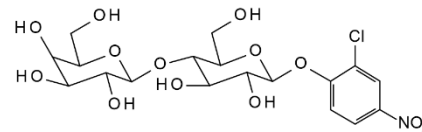
EC36496

5mg	\$115.00
10mg	\$190.00
25mg	\$325.00

**2-Chloro-4-nitrophenyl b-D-lactoside**[120583-41-7] C₁₈H₂₄ClNO₁₃ 497.83

EC04406

10mg	\$500.00
25mg	\$750.00
50mg	\$1300.00

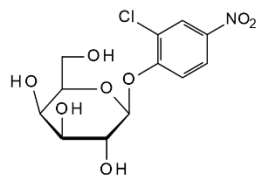


Refs: Nidetzky B, Steiner W, Hayn M, Claeysens M, J. Biochem, 1994, p298

2-Chloro-4-nitrophenyl b-D-galactopyranoside[123706-60-5] C₁₂H₁₄ClNO₈ 335.69

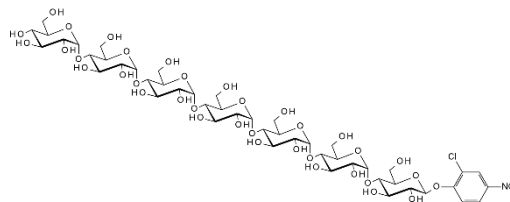
EC03318

500mg	\$75.00
1g	\$125.00
2g	\$230.00

**2-Chloro-4-nitrophenyl b-D-maltoheptaoside**[90826-64-5] C₄₈H₇₄ClNO₃₈ 1308.54

EC34835

Price On Application

**4-Chloro-2-nitrophenyl b-D-galactopyranoside**C₁₂H₁₄ClNO₈ 335.69

EC15713

50mg	\$68.50
100mg	\$116.00
250mg	\$210.00

**2-Chloro-4-nitrophenyl b-D-maltoside**

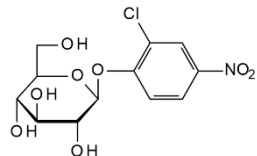
EC34836

Price On Application

**2-Chloro-4-nitrophenyl b-D-glucofuranoside**[120221-14-9] C₁₂H₁₄ClNO₈ 335.69

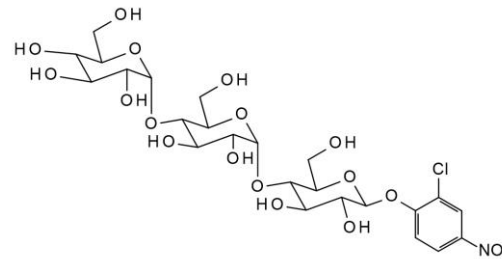
EC15456

100mg	\$95.00
200mg	\$140.00
500mg	\$275.00

**2-Chloro-4-nitrophenyl b-D-maltotrioside**[165522-16-7] C₂₄H₃₄ClNO₁₈ 659.98

EC07055

200mg	\$64.00
500mg	\$130.00
1g	\$199.50



Chloronitrop**2-Chloro-4-nitrophenyl b-D-xylobioside**

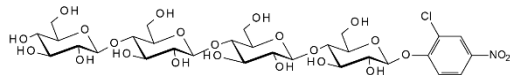
EC31480

Price On Application

**2-Chloro-4-nitrophenyl-b-D-celloctaosaide**[189094-93-7] C₃₀H₄₅ClNO₂₃ 823.12

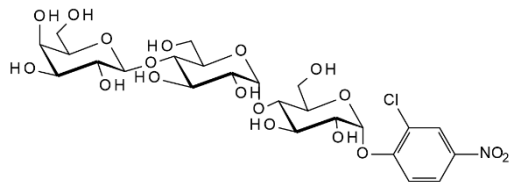
EC36497

5mg	\$115.00
10mg	\$195.00
25mg	\$375.00

**2-Chloro-4-nitrophenyl 4-O-b-D-galactopyranosylmaltoside**[157381-11-8] C₂₄H₃₄ClNO₁₈ 659.98

EC34823

Price On Application

**2-Chloro-4-nitrophenyl phosphate**

[14957-98-3]

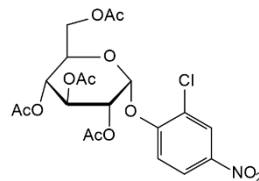
EC15602

Price On Application

**2-Chloro-4-nitrophenyl 2,3,4,6-tetra-O-acetyl-a-D-glucopyranoside**[153823-58-6] C₂₀H₂₂ClNO₁₂ 503.84

EC06599

50mg	\$100.00
100mg	\$184.00
250mg	\$395.00

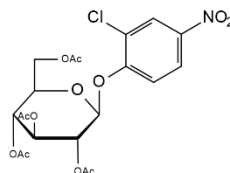


Refs: Montgomery EM, et al, JACS 1942, 64, p690

**2-Chloro-4-nitrophenyl 2,3,4,6-tetra-O-acetyl-b-D-glucopyranoside**[35023-71-3] C₂₀H₂₂ClNO₁₂ 503.84

EC03194

50mg	\$100.00
100mg	\$184.00
250mg	\$395.00



Refs: Montgomery EM, et al, JACS 1942, 64, p690

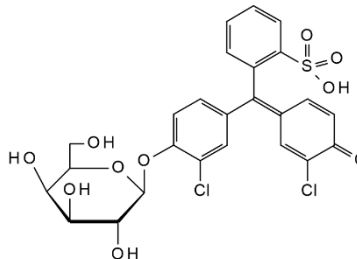
**Chlorophenol red b-D-galactopyranoside**

• CPRG

[99792-79-7] C₂₅H₂₂Cl₂O₁₀S 585.41

EC06050

50mg	\$75.00
100mg	\$116.00
250mg	\$262.50



Refs: Eustice DC et al, Biotechniques 1991, 11, 739



C

Chlorophenol red-b-D-galactopyranoside sodium salt

• CPRG

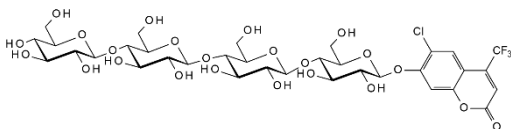
[99792-50-4] $C_{25}H_{21}Cl_2O_{10}S \cdot Na$ 607.39
 500mg \$90.00
 EC15915

**6-Chloro-4-trifluoromethylumbelliferone**

see 6-Chloro-7-hydroxy-4-(trifluoromethyl)coumarin, EC29601 on page 34

6-Chloro-4-(trifluoromethyl)umbelliferyl b-D-cellotetraoside

$C_{34}H_{44}ClF_3O_{23}$ 913.15
 EC28872
 1mg \$630.00
 2mg \$1050.00
 5mg \$1837.50

**6-Chloro-4-trifluoromethylumbelliferyl b-D-galactopyranoside**

EC58448
 25mg \$114.50
 50mg \$183.00
 100mg \$293.00

**6-Chloro-4-(trifluoromethyl)umbelliferyl b-D-galactopyranoside**

• CTU-Gal

$C_{18}H_{14}ClF_3O_8$ 426.73
 EC16007
 25mg \$100.00
 50mg \$163.00
 100mg \$273.00

**L-Citrulline-p-nitroanilide hydrobromide**

EC67750
 100mg \$50.00
 250mg \$100.00
 500mg \$160.00

**CMUG**

see 6-Chloro-4-methylumbelliferyl b-D glucuronide, EC16006 on page 37

CNP-b-D-GlcNAc

see 2-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside, EN03254 on page 102

CNPG3

see 2-Chloro-4-nitrophenyl a-D-maltotrioside, EC09787 on page 38

Coelenterazine

[55779-48-1] $C_{26}H_{21}N_3O_3$ 423.46
 EC14031
 1mg \$45.00
 2mg \$80.00
 5mg \$175.00

**Colchicine fluorescein**

[66091-34-7] $C_{41}H_{34}N_2O_{10}S$ 746.78
 EC58703 Price On Application

**CPRG**

see Chlorophenol red-b-D-galactopyranoside sodium salt, EC15915 on page 41

CPRG

see Chlorophenol red b-D-galactopyranoside, EC06050 on page 40

Creatinephos**Creatine phosphate disodium salt hexahydrate**

• Phosphocreatine

[6190-45-0]

EC70361	2g	\$42.60
	5g	\$85.00
	10g	\$155.00

**CTU-Gal**

see 6-Chloro-4-(trifluoromethyl)umbelliferyl b-D-galactopyranoside, EC16007 on page 41

CUG

see 3-Carboxyumbelliferyl b-D-galactopyranoside, EC03236 on page 32

5-Cyano-2,3-di-(p-tolyl)tetrazolium chloride

• 5-Cyano-2,3-bis(4-methylphenyl)-2H-tetrazolium chloride

[90217-02-0] C₁₆H₁₄ClN₅ 311.77

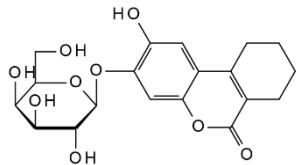
EC31975	10mg	\$65.00
	25mg	\$110.00
	50mg	\$195.00

**5-Cyano-2,3-bis(4-methylphenyl)-2H-tetrazolium chloride**

see 5-Cyano-2,3-di-(p-tolyl)tetrazolium chloride, EC31975 on page 42

3,4-Cyclohexenoesculetin b-D-galactopyranoside[182805-65-8] C₁₉H₂₂O₉ 394.37

EC15802	100mg	\$95.00
	250mg	\$190.00
	500mg	\$315.00

**Cyclohexylbutanoyl-N-hydroxyethylglucamide**

• C-HEGA-10

[864434-15-1] C₁₈H₃₅NO₇ 377.47

DC59721	1g	\$195.00
	2g	\$380.00
	5g	\$900.00

**Cyclohexylethanoyl-N-Hydroxyethylglucamide**[603111-75-7] C₁₈H₃₁NO₇ 349.42

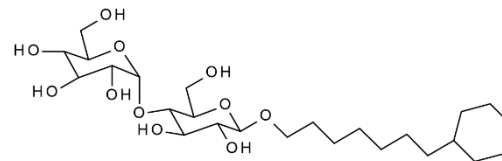
DC59720	1g	\$195.00
	2g	\$380.00
	5g	\$900.00

**7-Cyclohexylheptyl b-D-maltoside**

• 7-Cyclohexylheptyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside

[349477-49-2] C₂₅H₄₆O₁₁ 522.63

DC06148	25mg	\$40.00
	50mg	\$65.00
	100mg	\$100.00



Refs: Babcock BJ, Farzan M, Sodroski J, J. Biol. Chem, 2003, 278, p3378

**7-Cyclohexylheptyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside**

see 7-Cyclohexylheptyl b-D-maltoside, DC06148 on page 42

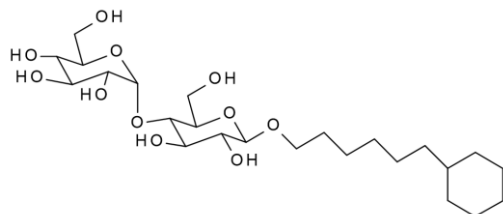
6-Cyclohexylhexyl b-D-maltoside

• 6-Cyclohexylhexyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside

[228579-27-9] C₂₈H₄₄O₁₁ 508.6

DC05107

250mg	\$85.00
500mg	\$150.00
1g	\$250.00



Refs: Ostermeier C, Harenga A, Emler U, Proc. Natl. Acad. Sci. 1997, USA 94, 10547-10553; Nukaga M, Abe T, Venkatesan AM, Mansour TS et al, Biochemistry 2003, 42, 13152-13159

6-Cyclohexylhexyl-4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside

see 6-Cyclohexylhexyl b-D-maltoside, DC05107 on page 43

Cyclohexylpentanoyl-N-Hydroxyethylglucamide

• C-HEGA-11

[864434-16-2] C₁₉H₃₇NO₇ 391.5

DC59722

1g	\$225.00
2g	\$430.00
5g	\$975.00

**Cyclohexylpropanoyl-N-Hydroxyethylglucamide**

• C-HEGA-9

[864434-14-0] C₁₇H₃₃NO₇ 363.45

DC59718

1g	\$195.00
2g	\$380.00
5g	\$900.00

**2,2-bis(3'-cyclohexylpropyl) propane-1,3-bis-b-D-maltopyranoside**

see CYMAL-5 neopentyl glycol, DC31287 on page 43

9,19-Cyclolanostane-beta-D-xylopyranoside

see Actein, EA65593 on page 11

CYMAL-5 neopentyl glycol

• 2,2-bis(3'-cyclohexylpropyl) propane-1,3-bis-b-D-maltopyranoside

C₄₅H₈₀O₂₂ 973.1

DC31287

500mg	\$165.00
1g	\$270.00
2g	\$530.00

**CYMAL-6 neopentyl glycol**

• 2,2-Bis(3'-cyclohexylbutyl) propane-1,3-bis-b-D-maltopyranoside

C₄₇H₈₄O₂₂ 1001.16

DC31288

500mg	\$210.00
1g	\$350.00
2g	\$650.00

**CYMAL-7 neopentyl glycol**

• 2,2-Bis(3'-cyclohexylpentyl) propane-1,3-bis-b-D-maltopyranoside

C₄₉H₈₈O₂₂ 1029.21

DC31289

500mg	\$235.00
1g	\$395.00
2g	\$750.00

**DDAO galactoside**

see [9H-1,3-Dichloro-9,9-dimethylacridin-2-one-7-yl] b-D-galactopyranoside], ED29505 on page 46

DDAO

see N,N-Dimethyldodecylamine N-oxide, DD12118 on page 48

DDM

see Dodecyl b-D-maltopyranoside, DD06199 on page 51

Decanoic acid 4-nitrophenyl ester

see 4-Nitrophenyl decanoate, EN29174 on page 118

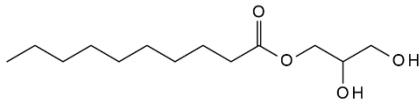
Decanoylglyc**1-Decanoyl-rac-glycerol**

- Monocaprin
- rac-1-Monocaprylglycerol

[26402-22-2][2277-23-8] C₁₃H₂₆O₄ 246.34

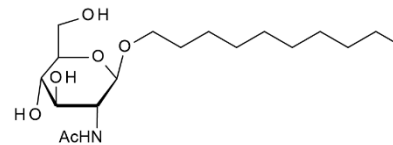
DD45213

1g	\$125.00
2g	\$220.00
5g	\$425.00

**Decyl 2-acetamido-2-deoxy-b-D-glucopyranoside**[147025-05-6] C₁₈H₃₅NO₆ 361.47

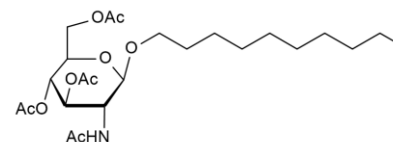
DD06347

Price On Application

**Decyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside**[135198-04-8] C₂₄H₄₁NO₉ 487.58

DD06351

Price On Application

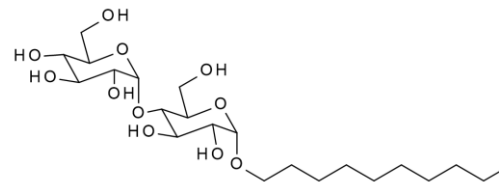
**Decyl α-D-maltopyranoside**

- Decyl 4-O-α-D-glucopyranosyl-α-D-glucopyranoside

[168037-12-5] C₂₂H₄₂O₁₁ 482.56

DD06375

1g	\$147.00
2g	\$262.50
5g	\$630.00

**Decyl α-L-rhamnopyranoside**

- Decyl rhamnoside

C₁₈H₃₂O₅ 304.42

DD45783

500mg	\$75.00
1g	\$130.00
2g	\$250.00

**Decanoyl-N-hydroxyethylglucamide**

- HEGA-10

[139361-84-5] C₁₈H₃₇NO₇ 379.49

DD59725

1g	\$195.00
2g	\$380.00
5g	\$875.00

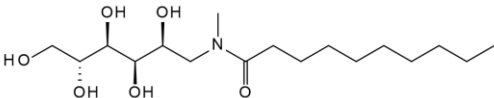
**N-Decanoyl-N-methylglucamine**

- N-(D-Glucityl)-N-methyldecanamide
- Mega-10

[85261-20-7] C₁₇H₃₅NO₆ 349.47

DD10404

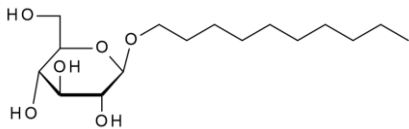
1g	\$60.00
2g	\$110.00
5g	\$250.00

**n-Decanoylsucrose**see *Sucrose monacprate*, DS06361 on page 149

Decyl b-D-glucopyranoside[58846-77-8] C₁₆H₃₂O₆ 320.42

DD06357

1g	\$75.00
2g	\$140.00
5g	\$280.00



Refs: Helenius A, McCaslin DR, Fries E, Tanford C, Methods Enzymol. 1979, 56, p734-749; Brito RMM, Vaz WLC, Anal. Biochem. 1986, 152, 250-255; Brown GM, Dubreuil P, Ichhaporia FM, Desnoyers JE, Can. J. Chem. 1970, 48, 2525-2531

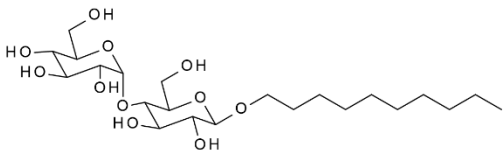
Decyl b-D-maltopyranoside

• Decyl maltoside

[82494-09-5] C₂₂H₄₂O₁₁ 482.56

DD05089

1g	\$55.00
2g	\$90.00
5g	\$195.00

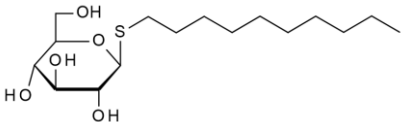


Refs: Alpes H, Apell H-J, Knoll G, Plattner H, Riek R, Biochim. Biophys. Acta 1988, 946, 379-388

Decyl b-D-thioglucopyranoside[98854-16-1] C₁₆H₃₂O₅S 336.49

DD05740

1g	\$157.50
2g	\$262.50
5g	\$525.00

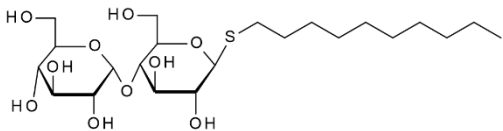
**Decyl b-D-thiomaltopyranoside**

• n-Decyl b-D-thiomaltoside

[148565-56-4] C₂₂H₄₂O₁₀S 498.63

DD06358

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



Refs: Mechref Y, Rassi ZE, J. Chromatogr. 757, 263-273 (1997)

n-Decyl b-D-thiomaltoside

see Decyl b-D-thiomaltopyranoside, DD06358 on page 45

Decyl 4-O-a-D-glucopyranosyl-a-D-glucopyranoside

see Decyl a-D-maltopyranoside, DD06375 on page 44

Decyl glucose neopentyl glycol

• 2,2-Dioctylpropane-1,3-bis b-D-glucopyranoside

C₃₅H₆₈O₁₂ 680.91

DD31290

1g	\$131.30
2g	\$199.50
5g	\$393.80

**Decyl maltose neopentyl glycol**

- 2,2-Dioctylpropane-1,3-bis b-D-maltopyranoside
- Decyl MNG

[1257852-99-5] C₄₃H₈₀O₂₂ 949.08

DD14033

1g	\$75.00
5g	\$325.00
10g	\$570.00

**Decyl maltoside**

see Decyl b-D-maltopyranoside, DD05089 on page 45

Decyl MNG

see Decyl maltose neopentyl glycol, DD14033 on page 45

Decyl rhamnoside

see Decyl a-L-rhamnopyranoside, DD45783 on page 44

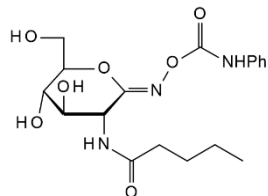
Deoxyvaleram**O-(2-Deoxy-2-valeramido-D-glucopyranosylidene)amino N-phenyl carbamate**

- PUGNAc pentanamide
- PUGNAc veleramide

C₁₈H₂₅N₃O₇ 395.41

ED10996

25mg	\$1312.50
50mg	\$2100.00
100mg	\$3675.00

**Z-DEVD-R 110**

see Rhodamine 110 bis-(N-CBZ-L-aspartyl-L-glutamyl-L-valyl-L-aspartic acid amide, ER58698 on page 148

3,6-Diacetoxyfluoran

see Fluorescein diacetate, EF45648 on page 52

Di-O-acetylfluorescein

see Fluorescein diacetate, EF45648 on page 52

N,N'-Diacetyl-4-methylumbelliferyl-b-D-chitobioside

see 4-Methylumbelliferyl N,N-diacetyl-b-D-chitobioside, EM05129 on page 83

4,4'-Diamino-3,3'-dimethoxybiphenyl dihydrochloride

see 3,3'-Dimethoxybenzidine dihydrochloride, ED10633 on page 48

O-Dianisidine dihydrochloride

see 3,3'-Dimethoxybenzidine dihydrochloride, ED10633 on page 48

3,3'-Dianisole-4,4'-bis(3,5-diphenyltetrazolium chloride)

see Tetrazolium blue chloride, ET11162 on page 151

[9H-1,3-Dichloro-9,9-dimethylacridin-2-one-7-yl] b-D-galactopyranoside

- DDAO galactoside

[503178-95-8] C₂₁H₂₁Cl₂NO₇ 470.3

ED29505

1mg	\$80.00
2mg	\$140.00
5mg	\$275.00

**2,2-Didecylpropane-1,3-bis b-D-glucopyranoside**

see Lauryl glucose neopentyl glycol, DL31291 on page 65

2,2-didecylpropane-1,3-bis b-D-maltopyranoside

see Lauryl maltose neopentyl glycol, DL14035 on page 65

6'-(Diethylamino)spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3'-yl b-D-galactopyranoside

- HMDER-bGAL

[1326231-95-1] C₃₀H₃₃NO₈ 535.58

ED139088

Price On Application

**6'-(Diethylamino)spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3'-yl b-D-glucopyranoside**C₂₇H₂₆O₈ 494.49

ED139090

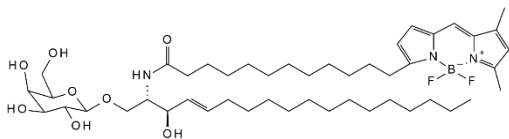
Price On Application



N-(4,4-Difluoro-5,7-dimethyl-4-bora-3a,4a-diaza-s-indacene-3-dodecanoyl)sphingosyl 1-b-D-galactopyranosideC₄₇H₇₈BF₂N₃O₈ 861.95

25ug \$315.00

ED03237

**3-(4,4-Difluoro-5,7-dimethyl-4-bora-3a,4a-diaza-s-indacene-3-propionamido)propyl b-D-lactoside**

• BODIPY b-D-lactose

C₂₉H₄₄BF₂N₃O₁₂ 675.48

Price On Application

ED76433

**6,8-Difluoro-4-methylumbelliferyl 2-acetamido-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside**

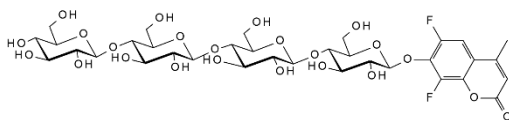
ED58133

Price On Application

**6,8-Difluoro-4-methylumbelliferyl b-D-cellobiotetraoside**C₃₄H₄₆F₂O₂₃ 860.71

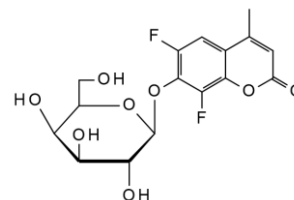
ED28873

1mg	\$630.00
2mg	\$1050.00
5mg	\$2362.50

**6,8-Difluoro-4-methylumbelliferyl b-D-galactopyranoside**[215868-26-1] C₁₆H₁₆F₂O₈ 374.29

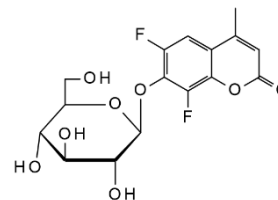
ED29428

50mg	\$2250.00
100mg	\$2975.00
250mg	\$5750.00

**6,8-Difluoro-4-methylumbelliferyl b-D-glucopyranoside**[351009-26-2] C₁₆H₁₆F₂O₈ 374.29

ED04972

1mg	\$75.00
2mg	\$130.00
5mg	\$225.00

**6,8-Difluoro-4-methylumbelliferyl b-D-glucuronide**[215868-36-3] C₁₆H₁₄F₂O₉ 388.27

ED64864

500mg \$3575.00

**2,2-Dihexylpropane-1,3-bis b-D-glucopyranoside**see *Octyl glucose neopentyl glycol*, DO14034 on page 140**1-(3,7-Dihydroxy-10H-phenoxazin-10-yl)ethanone**see *10-Acetyl-3,7-dihydroxyphenoxazine*, EA58690 on page 10

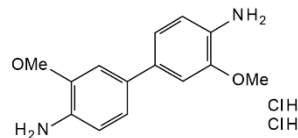
Dimethoxyben

3,3'-Dimethoxybenzidine dihydrochloride

- O-Dianisidine dihydrochloride
- 4,4'-Diamino-3,3'-dimethoxybiphenyl dihydrochloride

[20325-40-0] C₁₄H₁₆N₂O₂·2HCl 317.21

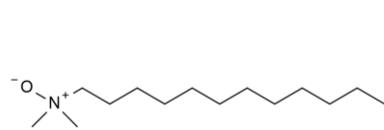
ED10633	50g	\$60.00
	100g	\$90.00
	250g	\$150.00

**3,3'-(3,3'-Dimethoxy[1,1'-biphenyl]-4,4'-diyl)-bis(2,5-diphenyl-2H-tetrazolium) dichloride**see *Tetrazolium blue chloride*, ET11162 on page 151**3,3'-(3,3'-Dimethoxy-4,4'-biphenylene)bis[5-(3-nitrophenyl)-2-phenyl-2H-tetrazolium chloride]**see *3-Nitrotetrazolium blue chloride*, EN31977 on page 134**3,3'-(3,3'-Dimethoxy-4,4'-biphenylene)bis[2,5-bis(p-nitrophenyl)-2H-tetrazolium chloride]**see *Tetranitroblue tetrazolium chloride*, ET31974 on page 151**N,N-Dimethyldodecylamine N-oxide**

- LDAO
- DDAO
- Lauryldimethylamine N-oxide

[1643-20-5] C₁₄H₃₁NO 229.4

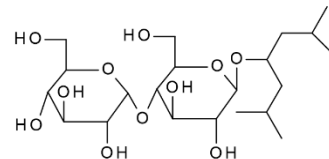
DD12118	5g	\$75.00
	10g	\$120.00
	25g	\$200.00

**2,6-Dimethylhept-4-yl 4-O-a-D-glucopyranosyl-b-D-glucopyranoside**see *2,6-Dimethyl-4-heptyl-b-D-maltopyranoside*, DD05102 on page 48**2,6-Dimethyl-4-heptyl-b-D-maltopyranoside**

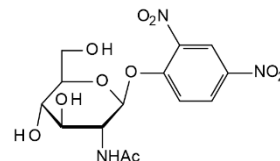
- 2,6-Dimethylhept-4-yl 4-O-a-D-glucopyranosyl-b-D-glucopyranoside

[869638-31-3] C₂₁H₄₀O₁₁ 468.54

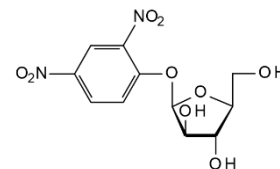
DD05102	1g	\$157.50
	2g	\$262.50
	5g	\$498.80

**3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyl-2H-tetrazolium bromide**see *Thiazolyl blue tetrazolium bromide*, ET15853 on page 151**2,4-Dinitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside**C₁₄H₁₇N₃O₁₀ 387.31

ED09277	250mg	\$210.00
	500mg	\$395.00
	1g	\$630.00

**2,4-Dinitrophenyl b-L-arabinofuranoside**C₃₂H₂₄N₂O₁₂ 628.54

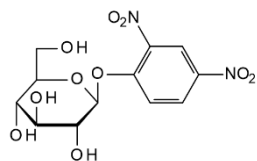
ED34876	50mg	\$945.00
	100mg	\$1260.00
	250mg	\$2625.00



2,4-Dinitrophenyl b-D-glucopyranoside[25775-97-7][31046-14-7] C₁₂H₁₄N₂O₁₀ 346.25

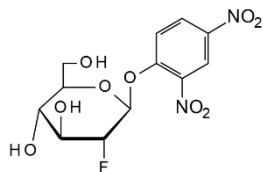
ED30200

10mg	\$120.00
25mg	\$247.50
50mg	\$415.00

**2,4-Dinitrophenyl 2-deoxy-2-fluoro-b-D-glucopyranoside**[111495-86-4] C₁₂H₁₃FN₂O₉ 348.24

ED04987

1mg	\$75.00
2mg	\$135.00
5mg	\$275.00



Refs: Withers SG, et al, J. Am. Chem. Soc. 1987, 109, 7530

**2,4-Dinitrophenyl 2-deoxy-2-fluoro-4-O-b-D-xylopyranosyl-b-D-xylopyranoside**

see 2,4-Dinitrophenyl 2-deoxy-2-fluoro-b-xylobioside, ED31393 on page 49

2,4-Dinitrophenyl 2-deoxy-2-fluoro-b-xylobioside

• 2,4-Dinitrophenyl 2-deoxy-2-fluoro-4-O-b-D-xylopyranosyl-b-D-xylopyranoside

[156271-23-7] C₁₈H₁₉FN₂O₁₂ 450.33

ED31393

Price On Application

**2,4-Dinitrophenyl 2-deoxy-2-fluoro-b-D-xylopyranoside**

[172218-63-2]

ED31394

Price On Application

**2,2'-Di(p-nitrophenyl)-5,5'-di(p-thiocarbamylphenyl)-3,3'-(3,3'-dimethoxy-4,4'-biphenylene)ditetrazolium chloride**

see Thiocarbamyl nitro blue tetrazolium, ET31976 on page 151

2,4-Dinitrophenyl)-L-lysine hydrochloride monohydrate

• Nalpha-2,4-DNP-L-lysine hydrochloride

[14401-10-6]

ED66137

100mg	\$60.00
250mg	\$110.00
500mg	\$175.00

**3-(2,4-Dinitrostyryl)-(6R, 7R)-7-(2-thienylacetamido)-ceph-3-em-4-carboxylic acid**

see Nitrocefirin, EN46644 on page 96

2,2-Dioctylpropane-1,3-bis b-D-glucopyranoside

see Decyl glucose neopentyl glycol, DD31290 on page 45

2,2-Dioctylpropane-1,3-bis b-D-maltopyranoside

see Decyl maltose neopentyl glycol, DD14033 on page 45

2,5-Diphenyl-3-(1-naphthyl)tetrazolium chloride

see Tetrazolium violet, ET31973 on page 151

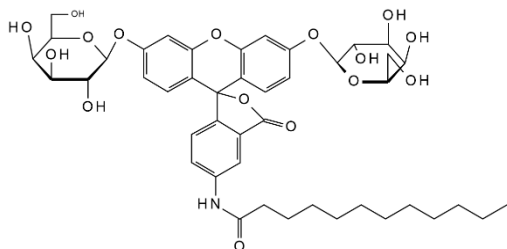
Dodecanoylam**5-Dodecanoylamino fluorescein di- β -D-galactopyranoside**

• C12FDG

[138777-25-0] C₄₄H₅₅NO₁₆ 853.9

ED03235

1mg	\$95.00
2mg	\$176.00
5mg	\$400.00

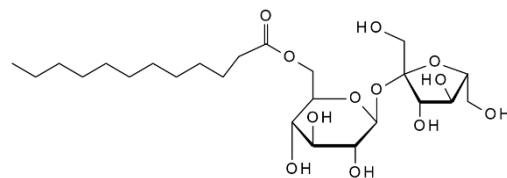
**Dodecanoyl D-sucrose**

- n-Monododecanoate α -D-glucopyranoside
- Sucrose monolaurate

[25339-99-5] C₂₄H₄₄O₁₂ 524.6

DD06810

500mg	\$45.00
1g	\$68.00
2g	\$124.00

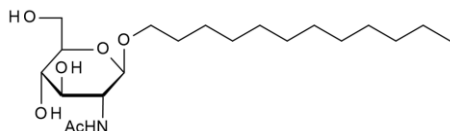


Refs: Makino H, et al, Agric. Biol. Chem. 1983, 47, 319

Dodecyl 2-acetamido-2-deoxy- β -D-glucopyranoside[147025-06-7] C₂₀H₃₉NO₆ 389.53

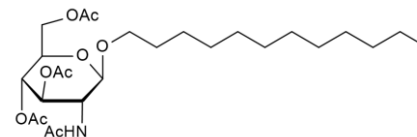
DD06825

Price On Application

**Dodecyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy- β -D-glucopyranoside**[211567-22-5] C₂₈H₄₅NO₉ 515.64

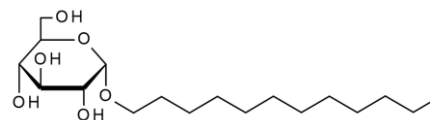
DD06828

Price On Application

**Dodecyl α -D-glucopyranoside**[29980-16-3] C₁₈H₃₆O₆ 348.47

DD05116

Price On Application

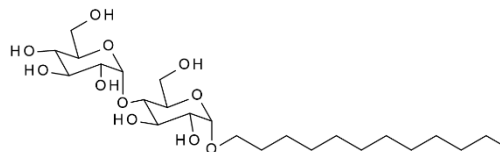
**Dodecyl α -D-maltopyranoside**

- n-Dodecyl α -D-maltoside
- Lauryl α -maltoside

[116183-64-3] C₂₄H₄₆O₁₁ 510.62

DD06349

250mg	\$80.00
500mg	\$135.00
1g	\$205.00



Refs: VanAken T, Foxall-VanAken S, Castleman S, Ferguson-Miller S, Methods Enzymol. 1986, 125, 27-35

n-Dodecyl α -D-maltosidesee *Dodecyl α -D-maltopyranoside*, DD06349 on page 50**Dodecyl β -D-cellobioside**C₂₄H₄₆O₁₁ 510.62

DD11096

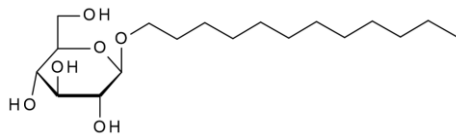
50mg	\$79.00
100mg	\$137.00
250mg	\$237.50



Dodecyl b-D-galactopyranosideC₁₈H₃₆O₆ 348.48

DD08929

Price On Application

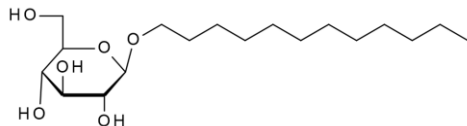
**Dodecyl b-D-glucopyranoside**

• Dodecyl glucoside

[59122-55-3] C₁₈H₃₆O₆ 348.47

DD06359

1g	\$50.00
2g	\$94.00
5g	\$225.00

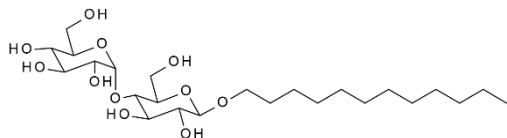


Refs: Deber CM, Hsu LC, Biochem. Biophys. Res. Commun. 1986, 134, 731; Helenius A, McCaslin DR, Fries E, Tanford C, Methods Enzymol. 1979, 56, 734-749; Brown GM, Dubreuil P, Ichhaporia FM, Desnoyers JE, Can. J. Chem. 1970, 48, 2525-2531

Dodecyl b-D-maltopyranoside• DDM
• Lauryl maltoside[69227-93-6] C₂₄H₄₆O₁₁ 510.62

DD06199

1g	\$32.50
2g	\$58.00
5g	\$130.00

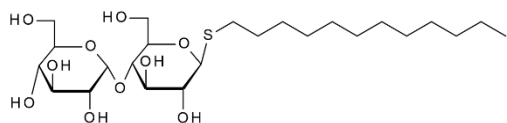


Refs: VanAken T, Foxall-VanAken S, Castleman S, Ferguson-Miller S, Methods Enzymol. 1986, 125, 27-35; Brown GM, Dubreuil P, Ichhaporia FM, Desnoyers JE, Can. J. Chem. 1970, 48, 2525-2531

Dodecyl b-D-thiomaltopyranoside• n-Dodecyl b-D-thiomaltoside
• Dodecyl 4-O-(a-D-glucopyranosyl)-1-thio-b-D-glucopyranoside[148565-58-6] C₂₄H₄₆O₁₀S 526.68

DD06355

500mg	\$95.00
1g	\$150.00
2g	\$270.00



Refs: Mechref Y, Rassi ZE, J. Chromatogr. 1997, 757, 263-273

n-Dodecyl b-D-thiomaltosidesee *Dodecyl b-D-thiomaltopyranoside*, DD06355 on page 51**Dodecyl 4-O-(a-D-glucopyranosyl)-1-thio-b-D-glucopyranoside**see *Dodecyl b-D-thiomaltopyranoside*, DD06355 on page 51**Dodecyl glucoside**see *Dodecyl b-D-glucopyranoside*, DD06359 on page 51**2-Dodecylresorufin**[147662-88-2] C₂₄H₃₁NO₃ 381.51

ED58684

5mg	\$95.00
10mg	\$170.00
20mg	\$300.00

**ELF-a-D-GalNAc**

see 2-(5'-Chloro-2'-hydroxyphenyl)-6-chloro-4(3H)-quinazolinonyl a-D-N-acetyl/galactosamine, EC33311 on page 33

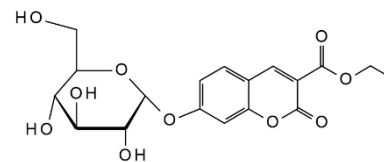
7-Ethoxy-3H-phenoxazin-3-onesee *Resorufin ethyl ether*, ER22912 on page 147**7-O-Ethoxyresorufin**see *Resorufin ethyl ether*, ER22912 on page 147**Ethyl 7-hydroxycoumarin-3-carboxylate-a-D-glucopyranoside**see *Ethyl umbelliferone-3-carboxylate-a-D-glucopyranoside*, EE45724 on page 51**Ethyl umbelliferone-3-carboxylate-a-D-glucopyranoside**

• Ethyl 7-hydroxycoumarin-3-carboxylate-a-D-glucopyranoside

C₁₈H₂₀O₁₀ 396.35

EE45724

1mg	\$195.00
2mg	\$370.00
5mg	\$875.00



FDGlu

FDGlu

see *Fluorescein di-b-D-galactopyranoside*, EF04417 on page 52

C12FDG

see *5-Dodecanoylaminofluorescein di-b-D-galactopyranoside*, ED03235 on page 50

F

C2FDG

see *5-Acetamidofluorescein-di-(b-D-galactopyranoside)*, EA03178 on page 9

FDG

see *Fluorescein di-b-D-galactopyranoside*, EF05436 on page 52

Fluorescein-DHPE

see *Fluorescein-dipalmitoylphosphatidylethanolamine triethylammonium salt*, EF23348 on page 53

Fluorescein diacetate

- 3,6-Diacetoxyfluoran
- Di-O-acetylfluorescein

[596-09-8] C₂₄H₁₆O₇ 416.38

EF45648

25g	\$150.00
50g	\$250.00
100g	\$395.00



Fluorescein dibutyrate

[7298-65-9] C₂₈H₂₄O₇ 472.49

EF59694

Price On Application



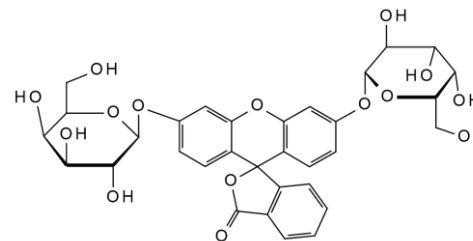
Fluorescein di-b-D-galactopyranoside

• FDG

[17817-20-8] C₃₂H₃₂O₁₅ 656.59

EF05436

2mg	\$50.00
5mg	\$95.00
10mg	\$180.00



Refs: Rotman B, et al, Proc. Natl. Acad. Sci. 1963, USA, 50, 1; Hofmann J, Sernetz M, Anal. Biochem. 1983, 131, 180

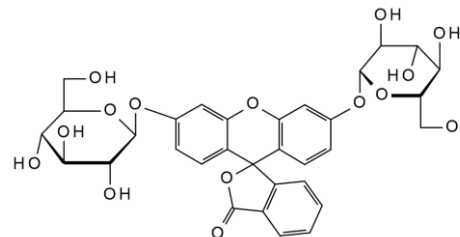
Fluorescein di-b-D-glucopyranoside

• FDGlu

[129787-66-2] C₃₂H₃₂O₁₅ 656.59

EF04417

2mg	\$80.00
5mg	\$150.00
10mg	\$230.00



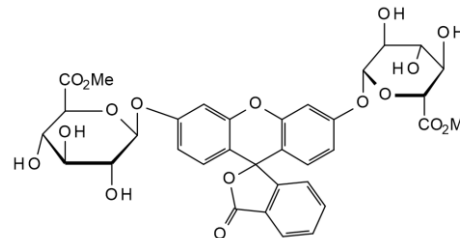
Refs: Kohen E, Kohen C, Hirschberg JG, Santus R, Grabowski G, Mangel W, Gatt S, Prince J, Cell Biochem. Funct. 1993, 11, p167

Fluorescein di-b-D-glucuronide dimethyl ester

C₃₄H₃₂O₁₇ 712.61

EF04416

1mg	\$105.00
2mg	\$191.20
5mg	\$430.00

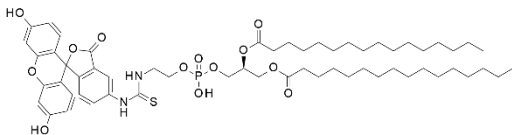


Fluorescein-dipalmitoylphosphatidylethanolamine triethylammonium salt

- Fluorescein-DHPE
- FPE
- Hexadecanoic acid 1,1'-[(1R)-1-[8-[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen-5-yl)amino]-3-hydroxy-3-oxido-8-thioxo-2,4-dioxo-7-aza-3-phosphaoct-1-yl]-1,2-ethanediyl] ester

[87706-98-7] C₅₈H₈₅N₂O₁₃PS·NC₆H₁₅ 1182.53

EF23348	1mg	\$52.50
	2mg	\$94.50
	5mg	\$152.30



Refs: Wall, J. Mol. Memb. Biol, 12, 183 (1995); Kachel, K. et al, Biochim. Biophys. Acta Biomemb, 1374, 63 (1998)

Fluorescein diphosphate tetraammonium salt[217305-49-2] C₂₀H₂₆N₄O₁₁P₂ 560.39

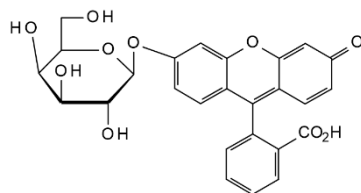
EF58704	2mg	\$180.00
	5mg	\$350.00
	10mg	\$550.00

**Fluorescein mono-b-D-galactopyranoside**

- FMGal

[102286-67-9] C₂₆H₂₂O₁₀ 494.45

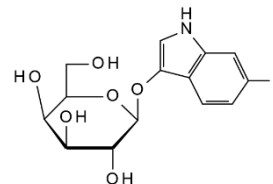
EF04418	1mg	\$89.30
	2mg	\$157.50
	5mg	\$262.50

**6-Fluoro-3-indolyl b-D-galactopyranoside**

- Rouge-gal

[207727-11-5] C₁₄H₁₆FNO₆ 313.28

EF03290	25mg	\$90.00
	50mg	\$150.00
	100mg	\$250.00

**2-Fluoro-4-nitrophenyl b-D-galactopyranoside**C₁₂H₁₄FNO₈ 319.24

EF15714	100mg	\$63.00
	250mg	\$100.00
	500mg	\$180.00

**4-Fluoro-2-nitrophenyl b-D-galactopyranoside**C₁₂H₁₄FNO₈ 319.24

EF15715	100mg	\$63.00
	250mg	\$100.00
	500mg	\$185.00

**FMGal**see *Fluorescein mono-b-D-galactopyranoside*, EF04418 on page 53**FPE**see *Fluorescein-dipalmitoylphosphatidylethanolamine triethylammonium salt*, EF23348 on page 53**b-D-Fructofuranosyl monodecanoate a-D-glucopyranoside**see *Sucrose monocaprate*, DS06361 on page 149

FucaGalbGalN**Fuca(1-2)Galb(1-3)GalNAc-a-pNP**

see 4-Nitrophenyl 2-acetamido-3-O-(2-O-a-L-fucopyranosyl-b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranoside, EN45633 on page 104

Fuca(1-2)Galb(1-3)GalNAc-b-pNP

see 4-Nitrophenyl 2-acetamido-3-O-(2-O-a-L-fucopyranosyl-b-D-galactopyranosyl)-2-deoxy-b-D-galactopyranoside, EN45632 on page 104

Fuc-a-1,2-Gal-b-1,4-GlcNAc-b-PNP

see 4-Nitrophenyl 2-acetamido-2-deoxy-4-O-(2-O-(a-L-fucopyranosyl)-b-D-galactopyranosyl)-b-D-glucopyranoside, EN04931 on page 99

Fuc-a-1-3-Gal-b-4-MU

see 4-Methylumbelliferyl 3-O-(a-L-fucopyranosyl)-b-D-galactopyranoside, EM06429 on page 81

Fuc-a-1,2-Gal-b-4MU

see 4-Methylumbelliferyl 2-O-(a-L-fucopyranosyl)-b-D-galactopyranoside, EM04791 on page 81

Fuc-a-1,4-Gal-b-MU

see 4-Methylumbelliferyl 4-O-(a-L-fucopyranosyl)-b-D-galactopyranoside, EM06428 on page 82

Fuc-a-1-2-Gal-a-PNP

see 4-Nitrophenyl 2-O-(a-L-fucopyranosyl)-a-D-galactopyranoside, EN06127 on page 120

Fuc-a-1-2-Gal-b-PNP

see 4-Nitrophenyl 2-O-(a-L-fucopyranosyl)-b-D-galactopyranoside, EN06600 on page 121

Fuc-b-1-2-Gal-b-PNP

see 4-Nitrophenyl 2-O-(b-L-fucopyranosyl)-b-D-galactopyranoside, EN04839 on page 121

Fuc-a-1,3-GlcNAc-b-4MU

see 4-Methylumbelliferyl 2-acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-b-D-glucopyranoside, EM04792 on page 71

Fuc-a-1,4-GlcNAc-b-4MU

see 4-Methylumbelliferyl 2-acetamido-2-deoxy-4-O-(a-L-fucopyranosyl)-b-D-glucopyranoside, EM06427 on page 71

X-a-L-Fucoside

see 5-Bromo-4-chloro-3-indolyl a-L-fucopyranoside, EB03266 on page 19

X-b-D-Fucoside

see 5-Bromo-4-chloro-3-indolyl b-D-fucopyranoside, EB03272 on page 20

X-b-L-Fucoside

see 5-Bromo-4-chloro-3-indolyl b-L-fucopyranoside, EB03292 on page 21

6-O-(b-D-Galactopyranosyl)luciferin

see D-Luciferin-6-O b-D-galactopyranoside, EL28834 on page 66

6-(b-D-Galactopyranosyloxy)-9-(4-methoxy-2-methylphenyl)-3H-xanthen-3-one

• 9-(4'-Methoxy-2'-methylphenyl)-6-(b-D-galactopyranosyloxy)-xanthen-3-one

[850695-63-5] C₂₇H₂₆O₉ 494.49

EG139089

Price On Application

**X-a-D-Galactoside**

see 5-Bromo-4-chloro-3-indolyl a-D-galactopyranoside, EB06819 on page 19

X-b-D-Galactoside

see 5-Bromo-4-chloro-3-indolyl b-D-galactopyranoside (X-Gal), EB06680 on page 21

Galb1,3GlcNAc-a-octyl

see Octyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-glucopyranoside, DO16485 on page 137

Gal-b-1,3-GalNAc-a-4MU

see 4-Methylumbelliferyl 2-acetamido-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside, EM03221 on page 73

Gal-b-1-3-GalNAc-a-PNP

see 4-Nitrophenyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside, EN04925 on page 101

Gal1-a-3GalNAc-a-PNP

see 4-Nitrophenyl 2-acetamido-2-deoxy-3-O-(a-D-galactopyranosyl)-a-D-galactopyranoside, EN16478 on page 100

Gal-b-1,3-GlcNAc-b-1,3-Gal-b-1,4-Glc-b-pNP

see 4-Nitrophenyl lacto-N-tetraoside, EN44927 on page 123

Gal-b-1,4-GlcNAc-b-1,3-Gal-b-1,4-Glc-b-pNP

see 4-Nitrophenyl b-lacto-N-neotetraoside, EN44928 on page 115

Gal1-b-3GlcNAc-b-octyl

see Octyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-glucopyranoside, DO06323 on page 137

Gal-b-1-3-GlcNAc-b-PNP

see 4-Nitrophenyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-glucopyranoside, EN06439 on page 101

Gal-b-1,4-GlcNAc-a-PNP

see 4-Nitrophenyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-a-D-glucopyranoside, EN04923 on page 101

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

see 4-Nitrophenyl b-globo-N-tetraoside, EN44929 on page 114

GalNAc-a-4MU

see 4-Methylumbelliferyl 2-acetamido-2-deoxy-a-D-galactopyranoside, EM04782 on page 71

GalNAc-a-PNP

see 4-Nitrophenyl 2-acetamido-2-deoxy-a-D-galactopyranoside, EN06659 on page 100

GalNAc-b-PNP

see 4-Nitrophenyl 2-acetamido-2-deoxy-b-D-galactopyranoside, EN04917 on page 100

X-alpha-GalNAc

see 5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy-a-D-galactopyranoside, EB03189 on page 17

X-GalNAc

see 5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy-b-D-galactopyranoside, EB05994 on page 18

X-a-Gal

see 5-Bromo-4-chloro-3-indolyl a-D-galactopyranoside, EB06819 on page 19

X-Gal

see 5-Bromo-4-chloro-3-indolyl b-D-galactopyranoside (X-Gal), EB06680 on page 21

a-D-Gal-(1→4)-b-D-Gal-1→O-OTE

see Octadecylthioethyl 4-O-(a-D-galactopyranosyl)-b-D-galactopyranoside, DO06531 on page 136

GDN

see Glyco-diosgenin, DG63244 on page 57

X-GlcA

see 5-Bromo-4-chloro-3-indolyl b-D-glucuronide cyclohexylammonium salt monohydrate, EB04274 on page 22

Glc-b-1-6-Glc-b-1-6-Glc-b-4-MU

see 4-Methylumbelliferyl b-D-gentiotrioside, EM04833 on page 78

GlcNAc-b-1-4-GalNAc-a-PNP

see 4-Nitrophenyl 2-acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside, EN06135 on page 97

GlcNAc-b-1-6-GalNAc-a-PNP

see 4-Nitrophenyl 2-acetamido-6-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside, EN06448 on page 98

GlcNAc-b-1,3-GalNAc-a-PNP

see 4-Nitrophenyl 2-acetamido-3-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside, EN05763 on page 97

GlcNAc-b-PNP

see 4-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside, EN04911 on page 102

X-GlcNAc

see 5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside, EB03287 on page 18

N-(D-Glucityl)-N-methyldecanamide

see N-Decanoyl-N-methylglucamine, DD10404 on page 44

7-[(O-b-D-glucopyranosyl-(14)-O-b-D-glucopyranosyl-(14)-b-D-glucopyranosyl)oxy]-4-methyl-2H-1-benzopyran-2-one

see 4-Methylumbelliferyl b-D-celotriose, EM07217 on page 77

17-L-[(2b-O-b-D-glucopyranosyl-b-D-glucopyranosyl)-oxy]-cis-9-octadecenoate

see Bola Sphorolipids, DB58287 on page 17

Glucopyranos**2b-O-b-D-glucopyranosyl-b-D-glucopyranosyl**see *Bola Sophorolipids, DB58287* on page 17**X-a-D-Glucoside**see *5-Bromo-4-chloro-3-indolyl a-D-glucopyranoside, EB05081* on page 19**X-b-D-Glucoside**see *5-Bromo-4-chloro-3-indolyl b-D-glucopyranoside, EB03169* on page 21**X-Glucuronide trihydrate**see *5-Bromo-4-chloro-3-indolyl b-D-glucuronide sodium salt trihydrate, EB03171* on page 22**X-Glucuronide**see *5-Bromo-4-chloro-1H-indol-3-yl-b-D-glucuronide, EB03256* on page 24**X-Glucuronide**see *5-Bromo-4-chloro-3-indolyl b-D-glucuronide cyclohexylammonium salt monohydrate, EB04274* on page 22**X-Glucuronide**see *5-Bromo-4-chloro-3-indolyl b-D-glucuronide sodium salt, EB03265* on page 22**gamma-L-Glutamic acid-AMC**see *gamma-L-Glutamic acid 7-amido-4-methylcoumarin, EG31007* on page 56**gamma-L-Glutamic acid 7-amido-4-methylcoumarin**

• gamma-L-Glutamic acid-AMC

[72669-53-5] C₁₅H₁₆N₂O₅ 304.3

EG31007	50mg	\$100.00
	100mg	\$158.00
	250mg	\$290.00

**gamma-Glutamyl-4-methoxy-beta-naphthylamide**

[24723-50-0] 302.33

EG66036	25mg	\$60.00
	50mg	\$100.00
	100mg	\$166.00

**gamma-L-Glutamyl-alpha-naphthylamide**[81012-91-1] C₁₆H₁₈N₂O₅ 318.32

EG68009	50mg	\$70.00
	100mg	\$120.00
	250mg	\$240.00

**Glutaryl-Gly-Arg-AMC.HCl**see *Glutaryl-glycyl-L-arginine 7-amido-4-methylcoumarin hydrochloride, EG138823* on page 56**Glutaryl-glycyl-L-arginine 7-amido-4-methylcoumarin hydrochloride**

• Glutaryl-Gly-Arg-AMC.HCl

[103213-40-7] C₂₃H₃₁N₇O₇ 538.98

EG138823	50mg	\$90.00
	100mg	\$150.00
	250mg	\$300.00

**Glycine-AMC HBr**see *Glycine 7-amido-4-methylcoumarin hydrobromide, EG15996* on page 57

G

Glycine 7-amido-4-methylcoumarin hydrobromide

• Glycine-AMC HBr

[113728-13-5] C₁₂H₁₃BrN₂O₃ 313.15

EG15996	25mg	\$62.50
	50mg	\$100.00
	100mg	\$150.00

**Glyco-diosgenin**

• GDN

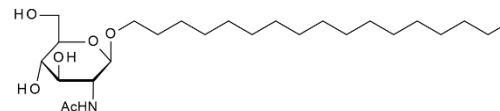
C₅₈H₉₂O₂₅ 1165.31

DG63244	1g	\$500.00
	2g	\$900.00
	5g	\$1975.00

**Green-a-D-arabinoide**see *N-Methyl-3-indolyl a-D-arabinopyranoside*, EM03253 on page 69**Green b-D-galactoside**see *N-Methyl-3-indolyl b-D-galactopyranoside monohydrate*, EM04984 on page 69**Green b-D-Gal**see *N-Methyl-3-indolyl b-D-galactopyranoside monohydrate*, EM04984 on page 69**HECAMEG**see *Methyl 6-O-(N-heptylcarbamoyl)-a-D-glucopyranoside*, DM06833 on page 69**C-HEGA-10**see *Cyclohexylbutanoyl-N-hydroxyethylglucamide*, DC59721 on page 42**C-HEGA-11**see *Cyclohexylpentanoyl-N-Hydroxyethylglucamide*, DC59722 on page 43**C-HEGA-9**see *Cyclohexylpropanoyl-N-Hydroxyethylglucamide*, DC59718 on page 43**HEGA-10**see *Decanoyl-N-hydroxyethylglucamide*, DD59725 on page 44**HEGA-11**see *Undecanoyl-N-hydroxyethylglucamide*, DU59726 on page 153**HEGA-8**see *Octanoyl-N-hydroxyethylglucamide*, DO59723 on page 137**HEGA-9**see *Nonanoyl-N-Hydroxyethylglucamide*, DN59724 on page 134**Heptadecyl 2-acetamido-2-deoxy-b-D-glucopyranoside**[262856-90-6] C₂₅H₄₉NO₆ 459.66

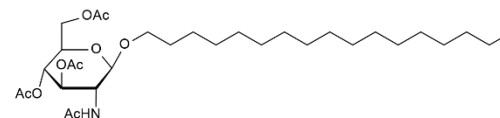
DH01792

Price On Application

**Heptadecyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside**[262856-89-3] C₃₁H₅₅NO₉ 585.77

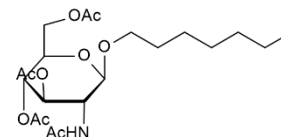
DH06382

500mg	\$500.00
1g	\$850.00
2g	\$1200.00

**Heptyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside**[115431-24-8] C₂₁H₃₅NO₉ 445.5

DH06818

Price On Application



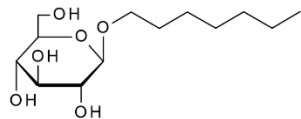
Heptylgluco

Heptyl b-D-glucopyranoside

[78617-12-6] C₁₃H₂₆O₆ 278.34

DH04966

500mg	\$110.00
1g	\$190.00
2g	\$330.00



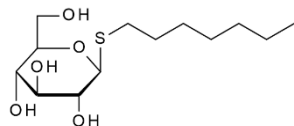
H

Heptyl b-D-thioglucopyranoside

[85618-20-8] C₁₃H₂₆O₅S 294.41

DH05114

1g	\$130.00
2g	\$250.00
5g	\$550.00



Refs: Shimamoto T, et al, J. Biochem. 1985, 97, p1807

6-O-(N-Heptylcarbamoyl)-methyl-α-D-glucopyranoside

see Methyl 6-O-(N-heptylcarbamoyl)-α-D-glucopyranoside, DM06833 on page 69

Hexadecanoic acid 1,1'-[(1R)-1-[8-[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)amino]-3-hydroxy-3-oxido-8-thioxo-2,4-dioxo-7-aza-3-phosphaoct-1-yl]-1,2-ethanediyl] ester

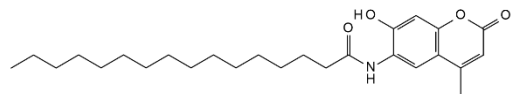
see Fluorescein-dipalmitoylphosphatidylethanolamine triethylammonium salt, EF23348 on page 53

6-Hexadecanoylamino-4-methylumbelliferone

[99422-73-8] C₂₆H₃₉NO₄ 429.59

EH10520

5mg	\$45.00
10mg	\$70.00
25mg	\$150.00



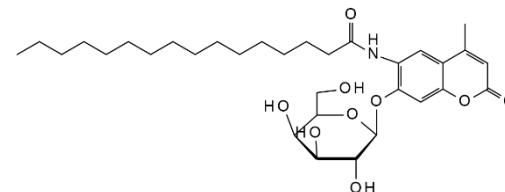
6-Hexadecanoylamino-4-methylumbelliferyl b-D-galactopyranoside

• 6-HMU galactoside

[94452-17-2] C₃₂H₄₉NO₉ 591.73

EH05989

1mg	\$75.00
2mg	\$130.00
5mg	\$250.00

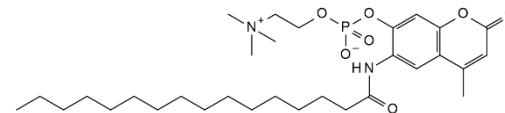


6-Hexadecanoylamino-4-methylumbelliferyl phosphorylcholine

[904315-61-3] C₃₁H₅₁N₂O₇P 594.72

EH31028

1mg	\$140.00
2mg	\$270.00
5mg	\$625.00



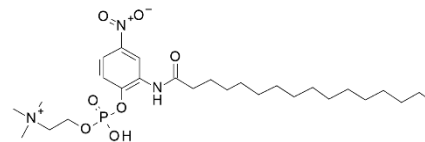
2-(N-Hexadecanoylamino)-4-nitrophenylphosphocholine hydroxide

• 2-[[hydroxy[4-nitro-2-[(1-oxohexadecyl)amino]phenoxy]phosphinyl]oxy]-N,N,N-trimethylethanaminium hydroxide

[60438-73-5] C₂₇H₅₀N₃O₈P 575.68

EH23780

5mg	\$50.00
10mg	\$85.00
25mg	\$175.00

OH⁻

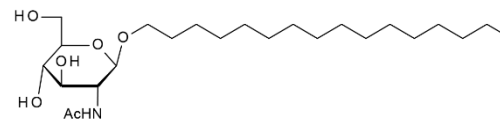
Refs: Brady, R.O, et al, Proc. Natl. Acad. Sci. USA, 55, 366 (1966); Gal, A.E, et al, New England J. Med, 293, 632 (1975)

Hexadecyl 2-acetamido-2-deoxy-b-D-glucopyranoside

[115414-49-8] C₂₄H₄₇NO₆ 445.63

DH06348

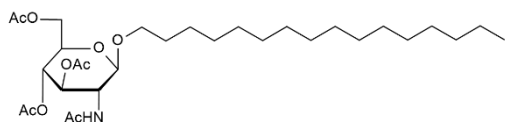
Price On Application



Hexadecyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside[115414-47-6] C₃₀H₅₃NO₉ 571.74

Price On Application

DH01793

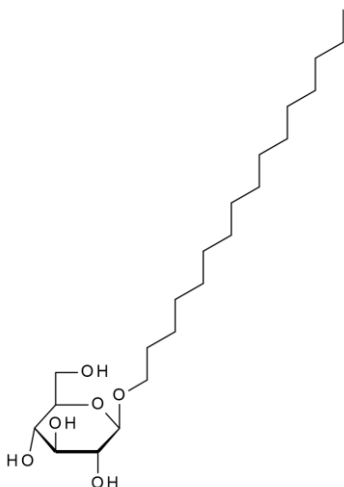
**Hexadecyl b-D-glucopyranoside**

• Hexadecyl glucoside

C₂₂H₄₄O₆ 404.58

DH09279

100mg	\$650.00
250mg	\$875.00
500mg	\$1000.00

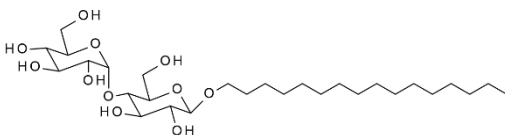
**Hexadecyl b-D-maltopyranoside**

• n-Hexadecyl b-D-maltoside

[98064-96-1] C₂₈H₅₄O₁₁ 566.72

DH05118

100mg	\$70.00
250mg	\$125.00
500mg	\$200.00

**n-Hexadecyl b-D-maltoside**see *Hexadecyl b-D-maltopyranoside*, DH05118 on page 59**Hexadecyl glucoside**see *Hexadecyl b-D-glucopyranoside*, DH09279 on page 59**6-Hexanoylamino-4-methylumbelliferyl b-D-galactopyranoside**

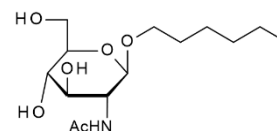
EH45275

Price On Application

**Hexyl 2-acetamido-2-deoxy-b-D-glucopyranoside**[190912-49-3] C₁₄H₂₇NO₆ 305.37

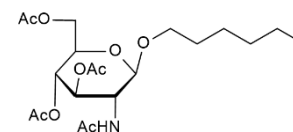
DH01797

Price On Application

**Hexyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside**[172945-26-5] C₂₀H₃₃NO₉ 431.48

DH02471

Price On Application



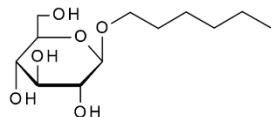
Hexylbglucop**Hexyl b-D-glucopyranoside**

• Hexyl glucoside

[59080-45-4] C₁₂H₂₄O₆ 264.32

DH04978

500mg	\$80.00
1g	\$135.00
2g	\$200.00

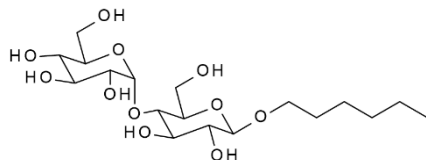


Refs: Brown GM, Dubreuil P, Ichhaporia FM, Desnoyers JE, Can. J. Chem. 1970, 48, p2525

Hexyl b-D-maltopyranoside• n-Hexyl b-D-maltoside
• Hexyl 4-O-a-D-glucopyranosyl-b-D-glucopyranoside[870287-95-9] C₁₈H₃₄O₁₁ 426.46

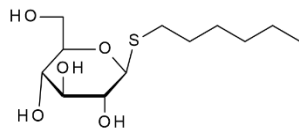
DH05113

1g	\$100.00
2g	\$180.00
5g	\$375.00

**n-Hexyl b-D-maltoside**see *Hexyl b-D-maltopyranoside*, DH05113 on page 60**Hexyl b-D-thioglucopyranoside**[85618-19-5] C₁₂H₂₄O₅S 280.38

DH06374

500mg	\$135.00
1g	\$204.80
2g	\$367.50



Refs: Saito S, Tsuchiya T, Chem. Pharm. Bull. 1985, 33, p503; Shimamoto T, et al, J. Biochem. 1985, 97, p1807

Hexyl 4-O-a-D-glucopyranosyl-b-D-glucopyranosidesee *Hexyl b-D-maltopyranoside*, DH05113 on page 60**Hexyl glucoside**see *Hexyl b-D-glucopyranoside*, DH04978 on page 60**HMDER-bGAL**

see 6'-(Diethylamino)spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3'-yl b-D-galactopyranoside, ED139088 on page 46

6-HMU galactoside

see 6-Hexadecanoylamino-4-methylumbelliferyl b-D-galactopyranoside, EH05989 on page 58

HQGal

see 8-Hydroxyquinoline b-D-galactopyranoside, EH05121 on page 61

HQGlc

see 8-Hydroxyquinoline b-D-glucopyranoside, EH04988 on page 61

HQG

see 8-Hydroxyquinoline b-D-glucuronide sodium salt, EH05119 on page 61

Hydroquinone-b-D-glucosidesee *Arbutin - Synthetic origin*, EA01844 on page 14**8-Hydroxy-1-azanaphthalene b-D-galactoside**

see 8-Hydroxyquinoline b-D-galactopyranoside, EH05121 on page 61

8-Hydroxy-1-azanaphthalene-b-D-glucopyranosiduronic acid sodium salt

see 8-Hydroxyquinoline b-D-glucuronide sodium salt, EH05119 on page 61

3-(7-Hydroxycoumarin-3-carboxamido)propyl 4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside

EH71893

Price On Application

**3-Hydroxy-2-naphtho-o-anisidine**see *Naphthol AS-OL*, EN71191 on page 91**3-Hydroxy-2-naphtho-toluidide**see *Naphthol AS-D*, EN70199 on page 91

2-[[hydroxy[4-nitro-2-[(1-oxohexadecyl)amino]phenoxy]phosphinyl]oxy]-N,N,N-trimethyl-ethanaminium hydroxide

see 2-(N-Hexadecanoylamino)-4-nitrophenylphosphocholine hydroxide, EH23780 on page 58

2-[[Hydroxy(4-nitrophenoxy)phosphinyl]oxy]-N,N,N-trimethyl-ethanaminium inner salt

see 4-Nitrophenylphosphorylcholine, EN26341 on page 127

2-Hydroxy-5-nitrophenyl sulfate dipotassium salt monohydrate

see 4-Nitrocatechol sulfate dipotassium salt, EN59562 on page 96

4-Hydroxyphenyl b-D-glucopyranoside

see Arbutin - Synthetic origin, EA01844 on page 14

4-Hydroxyphenyl-a-D-glucopyranoside

see a-Arbutin, EA10634 on page 13

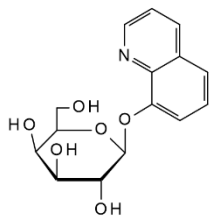
8-Hydroxyquinoline b-D-galactopyranoside

- 8-Hydroxy-1-azanaphthalene b-D-galactoside
- HQGal

[113079-84-8] C₁₅H₁₇NO₆ 307.3

EH05121

500mg	\$75.00
1g	\$125.00
2g	\$220.00

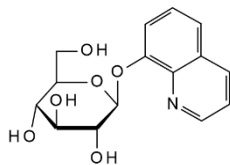
**8-Hydroxyquinoline b-D-glucopyranoside**

- HQGlc

[29266-96-4] C₁₅H₁₇NO₆ 307.3

EH04988

250mg	\$150.00
500mg	\$250.00
1g	\$420.00



Refs: Diez-Sampedro A, Lostao MP, Wright EM, et al, J. Membr. Biol. 2000, Vol176, No2, p111-117

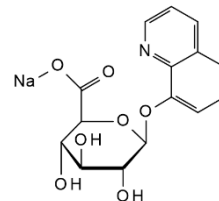
8-Hydroxyquinoline b-D-glucuronide sodium salt

- HQG
- 8-Hydroxy-1-azanaphthalene-b-D-glucopyranosiduronic acid sodium salt

[207728-71-0][14683-61-5] C₁₅H₁₄NNaO₇ 343.26

EH05119

250mg	\$70.00
500mg	\$115.00
1g	\$195.00

**IBDG**

see 3-Indolyl b-D-glucuronide cyclohexylammonium salt, EI06605 on page 62

Z-Ile-Glu-Thr-Asp-AFC

see Caspase substrate, EC58694 on page 33

1H-Indol-3-ol hydrogen sulfate (ester) monopotassium salt

see 3-Indoxyl sulfate potassium salt, EI24589 on page 63

1H-Indol-3-ol 3-(hydrogen sulfate) potassium salt

see 3-Indoxyl sulfate potassium salt, EI24589 on page 63

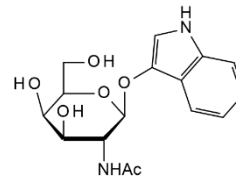
3-Indolyl 2-acetamido-2-deoxy-b-D-galactopyranoside

- 3-Indolyl N-acetyl-b-D-galactopyranoside

C₁₆H₂₀N₂O₆ 336.34

EI05988

Price On Application



Indolylaceta

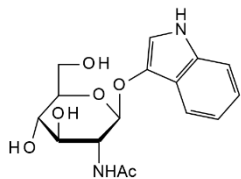
3-Indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside

• 3-Indolyl N-acetyl-b-D-glucopyranoside

C₁₆H₂₀N₂O₆ 336.34

EI03306

Price On Application

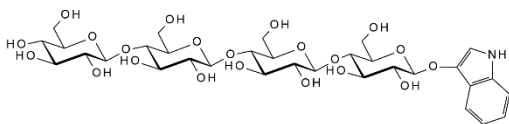


3-Indolyl b-D-cellobiotetraoside

C₃₂H₄₇NO₂₁ 781.71

EI45057

5mg	\$1800.00
10mg	\$2400.00

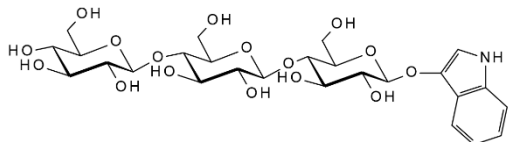


3-Indolyl b-D-cellobioside

C₂₆H₃₇NO₁₆ 619.57

EI45056

5mg	\$1200.00
10mg	\$1700.00



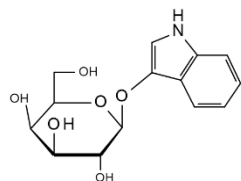
3-Indolyl b-D-galactopyranoside

• 3-Indoxyl b-D-galactopyranoside

[126787-65-3] C₁₄H₁₇NO₆ 295.29

EI05985

250mg	\$60.00
500mg	\$90.00
1g	\$150.00

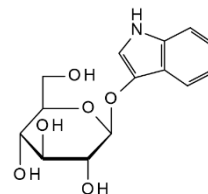


3-Indolyl b-D-glucopyranoside

• 3-Indoxyl b-D-glucoside
• Y-Gluc[487-60-5] C₁₄H₁₇NO₆ 295.29

EI03317

250mg	\$65.00
500mg	\$105.00
1g	\$185.00

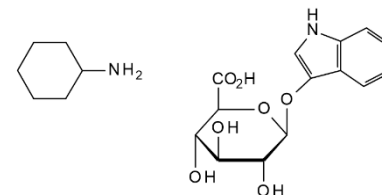


3-Indolyl b-D-glucuronide cyclohexylammonium salt

• Indoxyl b-D-glucuronide CHX salt
• IBDG[35804-66-1][216971-58-3] C₁₄H₁₅NO₇·C₆H₁₃N 408.45

EI06605

100mg	\$60.00
250mg	\$120.00
500mg	\$185.00

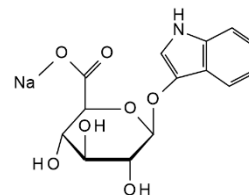


3-Indolyl b-D-glucuronide sodium salt

[119736-51-5] C₁₄H₁₄NNaO₇ 331.25

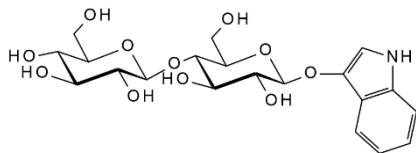
EI03299

100mg	\$95.00
250mg	\$150.00
500mg	\$250.00



3-Indolyl-b-D-cellobioside[914912-14-4] C₂₀H₂₇NO₁₁ 457.43

EI45055

5mg \$900.00
10mg \$1500.00**3-Indolyl N-acetyl-b-D-galactopyranoside**

see 3-Indolyl 2-acetamido-2-deoxy-b-D-galactopyranoside, EI05988 on page 61

3-Indolyl N-acetyl-b-D-glucopyranoside

see 3-Indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside, EI03306 on page 62

3-Indolyl phosphate disodium salt

see 3-Indoxyl phosphate disodium salt, EI24588 on page 63

Indol-3-yl potassium sulfate

see 3-Indoxyl sulfate potassium salt, EI24589 on page 63

3-Indoxyl b-D-galactopyranoside

see 3-Indolyl b-D-galactopyranoside, EI05985 on page 62

3-Indoxyl b-D-glucoside

see 3-Indolyl b-D-glucopyranoside, EI03317 on page 62

Indoxyl b-D-glucuronide CHX salt

see 3-Indolyl b-D-glucuronide cyclohexylammonium salt, EI06605 on page 62

3-Indoxyl caprylate

• 3-Indoxyl octanoate

[133950-66-0] 259.34

EI56752

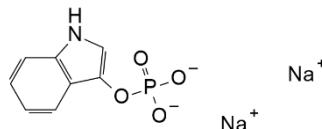
Price On Application

**3-Indoxyl octanoate**

see 3-Indoxyl caprylate, EI56752 on page 63

3-Indoxyl phosphate disodium salt• 3-Indoxyl phosphate disodium salt
• 3-Indoxyl phosphate disodium salt[3318-43-2] C₈H₆NNa₂O₄P 257.09

EI24588

500mg \$75.00
1g \$135.00
2g \$250.00

Refs: Heyman, H. and Seligman, A.J. J. Med. Chem, 10, 662 (1967)

**3-Indoxyl Phosphate, P-Toluidine Salt**

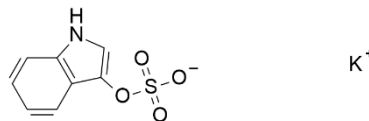
[31699-61-3] 320.28

EI56753

Price On Application

**3-Indoxyl sulfate potassium salt**• 1H-Indol-3-yl 3-(hydrogen sulfate) potassium salt
• 1H-Indol-3-yl hydrogen sulfate (ester) monopotassium salt
• Indol-3-yl potassium sulfate[2642-37-7] C₈H₆KNO₄S 251.3

EI24589

500mg \$75.00
1g \$125.00
2g \$190.00

Refs: Jennifer, C. et al, Biochem, 49, 393 (2010); Zgoda-Pols, J.R. et al, Toxicol. Appl. Pharmacol, 255, 48 (2011)

**INT**

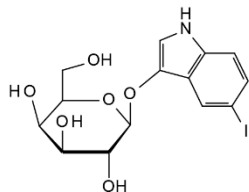
see Iodonitrotetrazolium chloride, EI13589 on page 64

Iodoindolylb**5-Iodo-3-indolyl b-D-galactopyranoside**

• Purple b-D-Gal

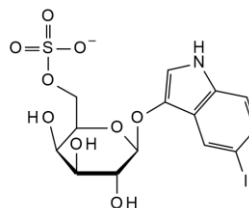
[36473-36-6] C₁₄H₁₆INO₆ 421.18

EI03217	50mg	\$55.00
	100mg	\$90.00
	250mg	\$165.00

**5-Iodo-3-indolyl-b-D-galactopyranoside-6-sulfate sodium salt**C₁₄H₁₅INNaO₉S 523.24

EI03258

Price On Application

Na⁺**Iodonitrotetrazolium chloride**

• INT

• 2-(4-Iodophenyl)-3-(4-nitrophenyl)-5-phenyltetrazolium chloride

[146-68-9] C₁₉H₁₃ClIN₅O₂ 505.7

EI13589	1g	\$60.00
	2g	\$90.00
	5g	\$140.00

**2-(4-Iodophenyl)-3-(4-nitrophenyl)-5-phenyltetrazolium chloride**see *Iodonitrotetrazolium chloride*, EI13589 on page 64**IPTG Hemidioxane**

• isoPropyl-beta-D-Thiogalactopyranoside

C₉H₁₈O₅S·1/2C₄H₈O₂ 282.35

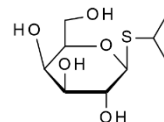
EI66397	1g	\$65.00
	2g	\$110.00
	5g	\$200.00

**IPTG non-animal origin**see *Isopropyl b-D-thiogalactopyranoside - non-animal origin*, EI05931 on page 64**IPTG**see *Isopropyl b-D-thiogalactopyranoside*, EI07011 on page 64**Isopropyl b-D-thiogalactopyranoside**

• IPTG

[367-93-1] C₉H₁₈O₅S 238.3

EI07011	25g	\$55.00
	50g	\$95.00
	100g	\$160.00



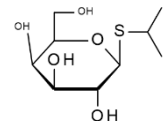
Refs: Lama J, et al, Gene 1992, 117, 185; Zhang Y, Moss B, Natl. Acad. Sci. USA, 1991, 88, 1511; Rodriguez JF, Smith GL, Nucleic Acids Res. 1990, 18, 5347; Date T, et al, Biochem. Biophys. Res. Commun. 1988, 151, 598; Lee SG, et al, Biochemistry 1988, 27, 2983

Isopropyl b-D-thiogalactopyranoside - non-animal origin

• IPTG non-animal origin

[367-93-1] C₉H₁₈O₅S 238.3

EI05931	25g	\$55.00
	50g	\$95.00
	100g	\$160.00



Refs: 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

isoPropyl-beta-D-Thiogalactopyranosidesee *IPTG Hemidioxane*, EI66397 on page 64

C.I. 37520see *Naphthol AS-D*, EN70199 on page 91**C.I. 37530**see *Naphthol AS-OL*, EN71191 on page 91**C.I.37510**see *Naphthol AS-E acetate*, EN66474 on page 90**Lactonic (di-acetylated) Sophorolipids**

• 17-L-[(2'-O-β-D-Glucopyranosyl-β-D-glucopyranosyl)oxy]-cis-9-octadecenoic acid 1',4'-lactone 6',6"-diacetate

[148409-20-5] C₃₄H₅₆O₁₄ 688.8

DL71483	500mg	\$55.00
	1g	\$75.00
	2g	\$130.00

**Lapis phosphate**see *5-Bromo-3-indolyl phosphate p-toluidine salt*, EB09358 on page 29**Lauryl α-maltoside**see *Dodecyl α-D-maltopyranoside*, DD06349 on page 50**Lauryldimethylamine N-oxide**see *N,N-Dimethyldodecylamine N-oxide*, DD12118 on page 48**Lauryl glucose neopentyl glycol**

• 2,2-Didecylpropane-1,3-bis b-D-glucopyranoside

[1423318-02-8] C₃₁H₆₀O₁₂ 624.8

DL31291	250mg	\$275.00
	500mg	\$450.00
	1g	\$760.00

**Lauryl maltose neopentyl glycol**• 2,2-didecylpropane-1,3-bis b-D-maltopyranoside
• Lauryl MNG[1257852-96-2] C₄₇H₈₈O₂₂ 1005.19

DL14035	1g	\$118.00
	2g	\$196.80
	5g	\$410.00

**Lauryl maltoside**see *Dodecyl b-D-maltopyranoside*, DD06199 on page 51**Lauryl MNG**see *Lauryl maltose neopentyl glycol*, DL14035 on page 65**LDAO**see *N,N-Dimethyldodecylamine N-oxide*, DD12118 on page 48**L-Leucine-AMC.HCl**see *L-Leucine 7-amido-4-methylcoumarin hydrochloride salt*, EL15997 on page 65**L-Leucine 7-amido-4-methylcoumarin hydrochloride salt**

• L-Leucine-AMC.HCl

[62480-44-8] C₁₆H₂₁ClN₂O₃ 324.8

EL15997	100mg	\$100.00
	250mg	\$185.00
	500mg	\$290.00

**LNT-pNP**see *4-Nitrophenyl lacto-N-tetraoside*, EN44927 on page 123

Luciferindim**DL-Luciferin 1-(4,5-dimethoxy-2-nitrophenyl)ethyl ester**[154140-55-3] C₂₁H₁₉N₃O₇S₂ 489.52

EL76125

10mg	\$95.00
25mg	\$175.00
50mg	\$275.00

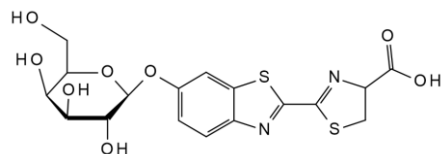
**D-Luciferin-6-O b-D-galactopyranoside**

• 6-O-(b-D-Galactopyranosyl)luciferin

[131474-38-9] C₁₇H₁₈N₂O₈S₂ 442.47

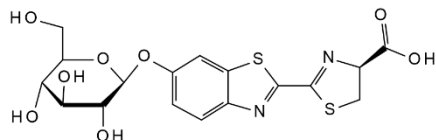
EL28834

1mg	\$57.80
2mg	\$105.00
5mg	\$210.00

**D-Luciferin-6-O b-D-glucopyranoside**C₁₇H₁₈N₂O₈S₂ 442.47

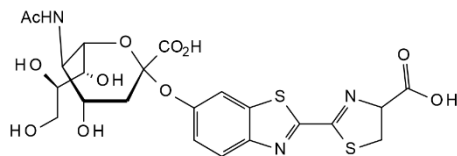
EL08610

Price On Application

**D-Luciferin-6-O N-acetylneuraminic acid**C₂₂H₂₅N₃O₁₁S₂ 571.58

EL29060

Price On Application

**LUM-NAG**

see (2-Aminophthalylhydrazido) 2-acetamido-2-deoxy-b-D-glucopyranoside, EA05713 on page 13

L-Lysine-AMC acetate

see L-Lysine 7-amido-4-methylcoumarin acetate salt, EL15998 on page 66

L-Lysine 7-amido-4-methylcoumarin acetate salt

• L-Lysine-AMC acetate

[201853-23-8] C₁₈H₂₅N₃O₅ 363.41

EL15998

100mg	\$100.00
250mg	\$197.50
500mg	\$345.00

**Magenta b-D-GlcA CHX**

see 5-Bromo-6-chloro-3-indolyl b-D-glucuronide cyclohexylammonium salt, EB03300 on page 22

Magenta b-D-Glc

see 5-Bromo-6-chloro-3-indolyl b-D-glucopyranoside, EB03298 on page 21

Magenta b-D-glucoside

see 5-Bromo-6-chloro-3-indolyl b-D-glucopyranoside, EB03298 on page 21

Magenta b-D-glucuronide CHX

see 5-Bromo-6-chloro-3-indolyl b-D-glucuronide cyclohexylammonium salt, EB03300 on page 22

Magenta caprylate

see 5-Bromo-6-chloro-3-indolyl caprylate, EB10515 on page 23

Magenta-a-D-galactoside

see 5-Bromo-6-chloro-3-indolyl a-D-galactopyranoside, EB03261 on page 19

Magenta gal

see 5-Bromo-6-chloro-3-indolyl b-D-galactopyranoside, EB06383 on page 21

Magenta GlcA

see 5-Bromo-6-chloro-3-indolyl b-D-glucuronide, EB03224 on page 22

Magenta-b-D-GlcNac

see 5-Bromo-6-chloro-3-indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside, EB03313 on page 18

Magenta-a-D-glucosidesee *5-Bromo-6-chloro-3-indolyl a-D-glucopyranoside*, EB03231 on page 19**Magenta-a-Mannose**see *5-Bromo-6-chloro-1H-indol-3-yl-a-D-mannopyranoside*, EB30998 on page 24**Magenta-Pal**see *5-Bromo-6-chloro-3-indolyl palmitate*, EB30757 on page 25**Magenta phosphate p-toluidine salt**see *5-Bromo-6-chloro-3-indolyl phosphate p-toluidine salt*, EB09338 on page 26**Magenta phosphate sodium salt**see *5-Bromo-6-chloro-3-indolyl phosphate disodium salt monohydrate*, EB09298 on page 26**Magenta(tm)-butyrate**see *5-Bromo-6-chloro-3-indoxyl butyrate*, EB56758 on page 27**Magenta(tm)-nonanoate**see *5-Bromo-6-chloro-3-indoxyl nonanoate*, EB56759 on page 27**Maltotetraose 2-AB**see *Maltotetraose 2-aminobenzamide*, EM30547 on page 67**Maltotetraose 2-aminobenzamide**

• Maltotetraose 2-AB

EM30547

Price On Application

**X-a-D-Maltotriose**see *5-Bromo-4-chloro-3-indolyl a-D-maltotriose*, EB03278 on page 20**Man-a-1-6-(Man-a-1-3)Man-b-O-octyl**see *Octyl 3,6-di-O-(a-D-mannopyranosyl)-b-D-mannopyranoside*, DO04803 on page 140**Man-a-1-6[Man-a-1-3]Man-b-PNP**see *4-Nitrophenyl 3,6-di-O-(a-D-mannopyranosyl)-b-D-mannopyranoside*, EN00854 on page 119**Man-a-1-3-Man-a-PNP**see *4-Nitrophenyl 3-O-(a-D-mannopyranosyl)-a-D-mannopyranoside*, EN04837 on page 124**Man-a-1-6-Man-a-PNP**see *4-Nitrophenyl 6-O-(a-D-mannopyranosyl)-a-D-mannopyranoside*, EN06126 on page 124**beta-Mannachrome A.R.**

• Remazol brilliant blue D-galacto-D-mannan

EM66793	1g	\$50.00
	2g	\$80.00
	5g	\$150.00

**beta-Mannachrome**

• Remazol brilliant blue D-galacto-D-mannan

EM66792

Price On Application

**X-a-Mannose**see *5-Bromo-4-chloro-3-indolyl a-D-mannopyranoside*, EB03269 on page 20**Man-a-PNP**see *4-Nitrophenyl a-D-mannopyranoside*, EN03183 on page 108**MCLA**see *2-Methyl-6-(4-methoxyphenyl)-3,7-dihydroimidazo(1,2-a)pyrazin-3-one hydrochloride*, EM58693 on page 69**Mega-10**see *N-Decanoyl-N-methylglucamine*, DD10404 on page 44

Mega

Mega-8

see *N-Methyl-N-octanoylglucamine*, DM32207 on page 70

Mega-9

see *N-Nonanoyl-N-methylglucamine*, DN12019 on page 135

(2-Mercaptoethyl)trimethylammonium bromide acetate

see *Acetylthiocholine bromide*, EA66467 on page 10

Methacholine bromide

• Acetyl-beta-methylcholine bromide

[333-31-3] C₈H₁₈NO₂·Br 240.14

EM70336	10g	\$90.00
	25g	\$175.00
	50g	\$250.00



3-Methoxy-4-hydroxycinnamic acid 4-nitrophenyl ester

see *4-Nitrophenyl trans-ferulate*, EN05238 on page 131

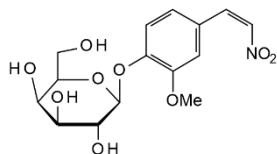
9-(4'-Methoxy-2'-methylphenyl)-6-(b-D-galactopyranosyloxy)-xanthen-3-one

see *6-(b-D-Galactopyranosyloxy)-9-(4-methoxy-2-methylphenyl)-3H-xanthen-3-one*, EG139089 on page 54

[2-Methoxy-4-(2-nitrovinyl)phenyl] b-D-galactopyranoside

[70622-78-5] C₁₅H₁₉NO₉ 357.31

EM06779	50mg	\$65.00
	100mg	\$110.00
	250mg	\$185.00



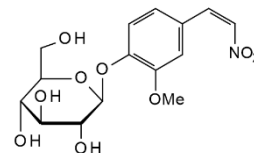
[2-Methoxy-4-(2-nitrovinyl)phenyl] b-D-glucopyranoside

• MNP-Glc

[70622-80-9] C₁₅H₁₉NO₉ 357.31

EM06789

100mg	\$95.00
250mg	\$190.00
500mg	\$325.00



7-Methoxy-3H-phenoxazin-3-one

see *Resorufin methyl ether*, ER11277 on page 147

7-Methoxyresorufin

see *Resorufin methyl ether*, ER11277 on page 147

Methyl b-D-glucuronic acid sodium salt

see *Methyl b-D-glucuronide sodium salt*, EM01955 on page 68

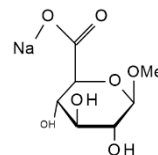
Methyl b-D-glucuronide sodium salt

• Methyl b-D-glucuronic acid sodium salt

[134253-42-2][58189-74-5] C₇H₁₁NaO₇ 230.15

EM01955

500mg	\$75.00
1g	\$120.00
2g	\$195.00



4-O-Methyl-D-glucurono-D-xylan dyed with Remazol brilliant blue R

see *Remazol brilliant blue R D-xylan*, ER32449 on page 146

4-O-Methyl-D-glucurono-D-xylan-remazol brilliant blue

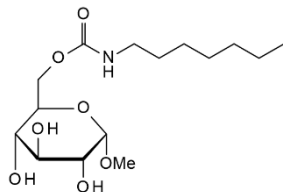
see *Remazol brilliant blue R D-xylan*, ER32449 on page 146

Methyl 6-O-(N-heptylcarbamoyl)- α -D-glucopyranoside

- 6-O-(N-Heptylcarbamoyl)-methyl- α -D-glucopyranoside
- HECAMEG

[115457-83-5] C₁₅H₂₉NO₇ 335.39

DM06833	2g	\$68.30
	5g	\$147.00
	10g	\$262.50



Refs: Plusquellec D, et al, Anal. Biochem. 1989, 179, 145; Shanahan MF, J. Biol. Chem. 1985, 260, 20, 10897

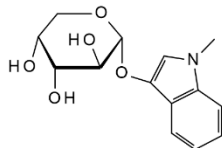
N-Methyl-3-indolyl α -D-arabinopyranoside

- Green- α -D-arabinoside

C₁₄H₁₇NO₅ 279.29

EM03253

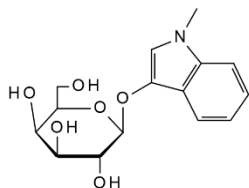
Price On Application

**N-Methyl-3-indolyl β -D-galactopyranoside monohydrate**

- Green β -D-Gal
- Green β -D-galactoside

[207598-26-3] C₁₅H₂₁NO₇ 327.33

EM04984	25mg	\$65.00
	50mg	\$115.00
	100mg	\$195.00

**2-Methyl-6-(4-methoxyphenyl)-3,7-dihydroimidazo(1,2-a)pyrazin-3-one hydrochloride**

- MCLA

[128322-44-1] C₁₄H₁₃ClN₃O₂ 290.72

EM58693	5mg	\$145.00
	10mg	\$275.00
	20mg	\$520.00

**2-Methyl-4-nitrophenyl β -D-galactopyranoside**C₁₃H₁₇NO₈ 315.28

EM15716

50mg	\$66.00
100mg	\$116.00
250mg	\$210.00

**4-Methyl-2-nitrophenyl β -D-galactopyranoside**C₁₃H₁₇NO₈ 315.28

EM15717

50mg	\$66.00
100mg	\$116.00
250mg	\$210.00

**Methyl 4-nitrophenyl hexylphosphonate**[259827-72-0] C₁₃H₂₀NO₅P 301.28

EM46650

Price On Application

**Methyl (2-nitrophenyl 2,3,4-tri-O-acetyl- β -D-glucopyranosid)uronate**see 2-Nitrophenyl 2,3,4-tri-O-acetyl- β -D-glucuronide methyl ester, EN04805 on page 132

Methylnitrop**Methyl (4-nitrophenyl 2,3,4-tri-O-acetyl-b-D-glucopyranosid)uronate**see *4-Nitrophenyl 2,3,4-tri-O-acetyl-b-D-glucuronide methyl ester, EN06824 on page 132***N-Methyl-N-octanoylglucamine**

- Octanoyl-N-methylglucamide
- Mega-8

[85316-98-9] C₁₅H₃₁NO₆ 321.41

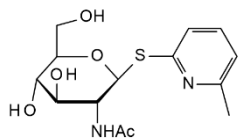
DM32207	1g	\$50.00
	2g	\$80.00
	5g	\$150.00

**M 6-Methyl-2-pyridyl 2-acetamido-2-deoxy-b-D-thioglucopyranoside**

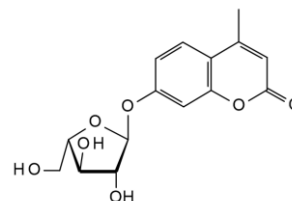
- 6-Methyl-2-pyridyl N-acetyl-b-D-thioglucosamine
- MPT-NAG

[149263-94-5] C₁₄H₂₀N₂O₅S 328.39

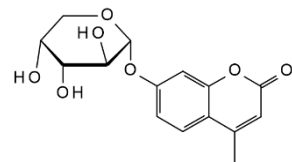
EM10847	50mg	\$60.00
	100mg	\$90.00
	250mg	\$167.50

**6-Methyl-2-pyridyl N-acetyl-b-D-thioglucosamine**see *6-Methyl-2-pyridyl 2-acetamido-2-deoxy-b-D-thioglucopyranoside, EM10847 on page 70***4-Methyl-7-[(3,4,6-tri-O-acetyl-2-azido-2-deoxy-a-D-galactopyranosyl)oxy]-2H-1-benzopyran-2-one**see *4-Methylumbelliferyl 3,4,6-tri-O-acetyl-2-azido-2-deoxy-a-D-galactopyranoside, EM16473 on page 86***Methyltridodecylammonium chloride**see *Tridodecylmethylammonium chloride, DT15729 on page 152***4-Methylumbelliferyl a-L-arabinofuranoside**[77471-44-4] C₁₅H₁₆O₇ 308.28

EM09792	10mg	\$46.20
	25mg	\$92.00
	50mg	\$157.50

**4-Methylumbelliferyl a-D-arabinopyranoside**C₁₅H₁₆O₇ 308.28

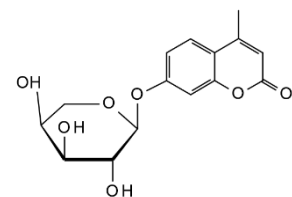
EM06880	1mg	\$68.30
	2mg	\$115.50
	5mg	\$231.00

**4-Methylumbelliferyl a-L-arabinopyranoside**

- 4-MU-a-L-Ara

[69414-26-2] C₁₅H₁₆O₇ 308.28

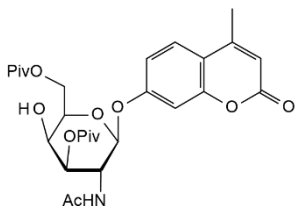
EM03176	250mg	\$55.00
	500mg	\$65.00
	1g	\$110.00



4-Methylumbelliferyl 2-acetamido-2-deoxy-3,6-di-O-pivaloyl-b-D-galactopyranoside[849207-59-6] C₂₈H₃₇NO₁₀ 547.59

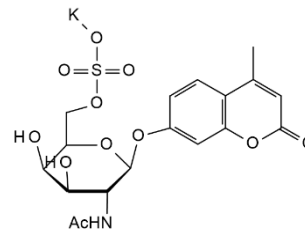
EM07223

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

**4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-galactopyranoside-6-sulfate potassium salt**[383160-14-3] C₁₈H₂₀KNO₁₁S 497.52

EM03197

1mg	\$175.00
2mg	\$300.00
5mg	\$550.00



Refs: Szweda R, et al, Can. J. Chem. 1989, 67, p1388; Matta KL, Barlow JJ, Carbohydr. Res. 1976, 48, p65

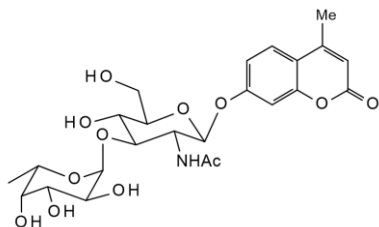
4-Methylumbelliferyl 2-acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-b-D-glucopyranoside

• Fuc-a-1,3-GlcNAc-b-4MU

[383160-12-1] C₂₄H₃₁NO₁₂ 525.5

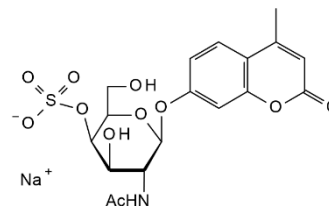
EM04792

500ug	\$105.00
1mg	\$168.00
2mg	\$294.00

**4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-galactopyranoside-4-sulfate sodium salt**C₁₈H₂₀NNaO₁₁S 481.41

EM07222

1mg	\$65.00
2mg	\$110.00
5mg	\$195.00

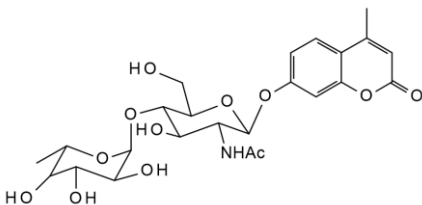
**4-Methylumbelliferyl 2-acetamido-2-deoxy-4-O-(a-L-fucopyranosyl)-b-D-glucopyranoside**

• Fuc-a-1,4-GlcNAc-b-4MU

[383160-13-2] C₂₄H₃₁NO₁₂ 525.5

EM06427

0.5mg	\$89.30
1mg	\$168.00
2mg	\$262.50

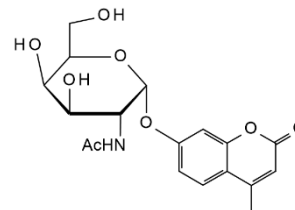
**4-Methylumbelliferyl 2-acetamido-2-deoxy-a-D-galactopyranoside**

• GalNAc-a-4MU

[124223-99-0] C₁₈H₂₁NO₈ 379.36

EM04782

5mg	\$75.00
10mg	\$140.00
25mg	\$325.00



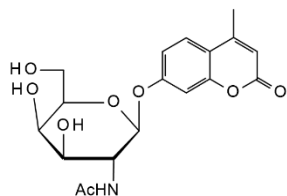
Methylumbell**4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-galactopyranoside**

• 4-Methylumbelliferyl N-acetyl-b-D-galactosamine

[36476-29-6] C₁₈H₂₁NO₈ 379.36

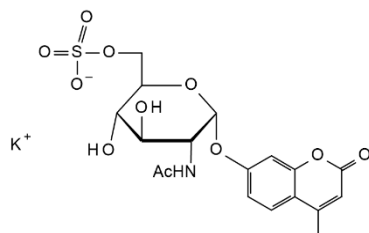
EM06390

250mg	\$65.00
500mg	\$85.00
1g	\$100.00

**4-Methylumbelliferyl 2-acetamido-2-deoxy-a-D-glucopyranoside-6-sulfate potassium salt**[154639-35-7][210357-37-2] C₁₈H₂₀KNO₁₁S 497.52

EM04850

0.5mg	\$100.00
1mg	\$145.00
2mg	\$270.00

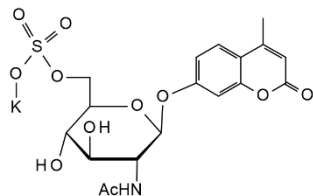


Refs: He W, et al, J. Inher. Metab. Dis. 1993, 16, p935

4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-glucopyranoside-6-sulfate potassium salt[210357-38-3] C₁₈H₂₀KNO₁₁S 497.52

EM05722

10mg	\$50.00
25mg	\$100.00
50mg	\$160.00

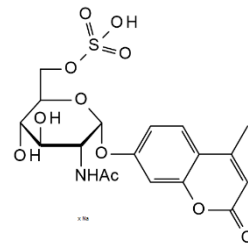


Refs: Bayleran J, et al, Clin. Chim. Acta. 1984, 143, p73

4-Methylumbelliferyl 2-acetamido-2-deoxy-a-D-glucopyranoside-6-sulfate sodium salt[153484-08-3] C₁₈H₂₀NNaO₁₁S 481.41

EM31027

1mg	\$115.00
2mg	\$220.00
5mg	\$500.00

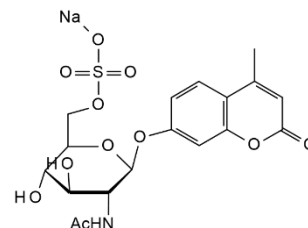
**4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-glucopyranoside-6-sulfate sodium salt**

• 4-Methylumbelliferyl 2-acetamido-2-deoxy-6-sulphate-b-D-glucopyranoside

[142439-99-4] C₁₈H₂₀NNaO₁₁S 481.41

EM03271

5mg	\$70.00
10mg	\$120.00
25mg	\$250.00



Refs: Bayleran J, et al, Clin. Chim. Acta. 1984, 143, p73

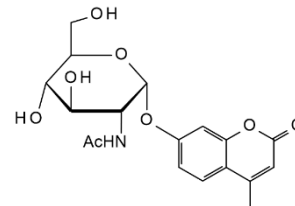
4-Methylumbelliferyl 2-acetamido-2-deoxy-a-D-glucopyranoside

• 4-Methylumbelliferyl N-acetyl-a-D-glucosaminide

[80265-04-9] C₁₈H₂₁NO₈ 379.36

EM06426

5mg	\$65.00
10mg	\$115.00
25mg	\$250.00



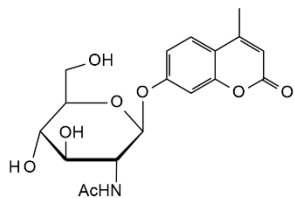
Refs: Crow P, et al, Carbohydr. Res. 1981, 96, p87; Marsh F, et al, Clin. Genet. 1985, 50, p258

4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-glucopyranoside

- 4-Methylumbelliferyl N-acetyl-b-D-glucosaminide
- 4-MU-GlcNAc

[37067-30-4] C₁₈H₂₁NO₈ 379.36

EM03177	500mg	\$70.00
	1g	\$95.00
	2g	\$160.00



Refs: Leaback DH, Walker PG, Biochem. J. 1961, 78, p151

4-Methylumbelliferyl 2-acetamido-2-deoxy-6-sulphate-b-D-glucopyranoside

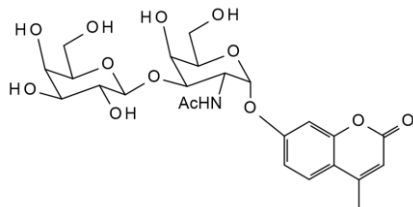
see 4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-glucopyranoside-6-sulfate sodium salt, EM03271 on page 72

4-Methylumbelliferyl 2-acetamido-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside

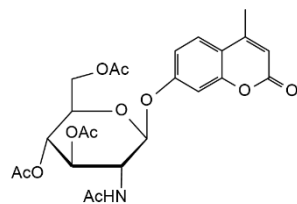
- Gal-b-1,3-GalNAc-a-4MU

[210357-36-1] C₂₄H₃₁NO₁₃ 541.5

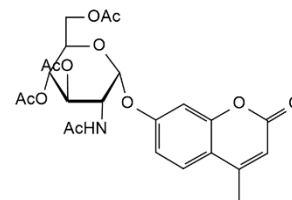
EM03221	.5mg	\$89.30
	1mg	\$168.00
	2mg	\$315.00

**4-Methylumbelliferyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-galactopyranoside**[124167-46-0] C₂₄H₂₇NO₁₁ 505.47

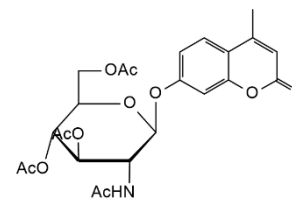
EM03196	100mg	\$90.00
	250mg	\$157.50
	500mg	\$265.00

**4-Methylumbelliferyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-a-D-glucopyranoside**C₂₄H₂₇NO₁₁ 505.48

EM07221	1mg	\$68.30
	2mg	\$84.00
	5mg	\$131.30

**4-Methylumbelliferyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside**[124167-45-9] C₂₄H₂₇NO₁₁ 505.47

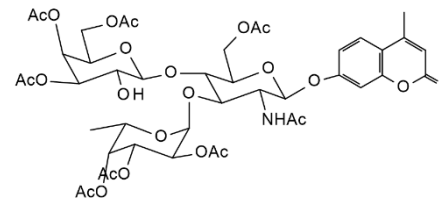
EM02954	Price On Application
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**4-Methylumbelliferyl 2-acetamido-3-O-(2,3,4-tri-O-acetyl-a-L-fucopyranosyl)-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-6-O-acetyl-2-deoxy-b-D-glucopyranoside**

- 4-Methylumbelliferyl lewis X trisaccharide nonaacetate glycoside

C₄₆H₅₇NO₂₅ 1023.94

EM07220	1mg	\$210.00
	2mg	\$315.00
	5mg	\$630.00



Methylumbell**4-Methylumbelliferyl acetate**[2747-05-9] C₁₂H₁₀O₄ 218.21

EM16008

5g	\$60.00
10g	\$85.00
25g	\$200.00

**4-Methylumbelliferyl-N-acetyl-alpha-D-neuraminide ammonium salt**

- 4-Methylumbelliferyl NANA
- 4-MU NANA

EM65435

250ug	\$60.00
500ug	\$100.00
1mg	\$160.00

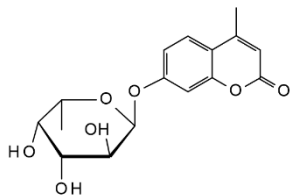
**4-Methylumbelliferyl a-L-fucopyranoside**

• 4-MU-a-L-Fuc

[54322-38-2] C₁₆H₁₈O₇ 322.31

EM01930

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

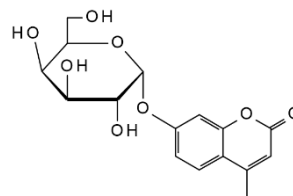
**4-Methylumbelliferyl a-D-galactopyranoside**

• 4-MU-a-D-Gal

[38597-12-5] C₁₆H₁₈O₈ 338.31

EM05182

50mg	\$50.00
100mg	\$75.00
250mg	\$125.00



Refs: Oda Y, et al. Anal. Biochem. 1997, 254, p41; Lo J-Y, J. Biol. Chem. 254, p6710; Cheetham PS, Dante NE, Biochem. 1976, 157, p189

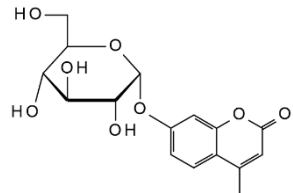
4-Methylumbelliferyl a-D-glucopyranoside

• 4-MU-alpha-D-glucoside

[17833-43-1][38596-12-5] C₁₆H₁₈O₈ 338.31

EM06820

500mg	\$60.00
1g	\$95.00
2g	\$170.00



Refs: Clin. Chim. Acta 1977, 78, p335

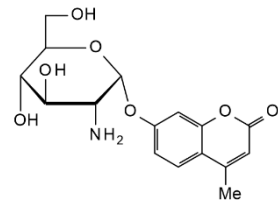
4-Methylumbelliferyl a-D-glucosaminide

• 4-Methylumbelliferyl 2-amino-2-deoxy-a-D-glucopyranoside

[137687-00-4] C₁₆H₁₉NO₇ 337.32

EM03198

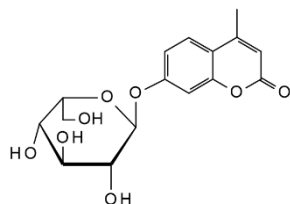
5mg	\$89.30
10mg	\$168.00
25mg	\$262.50



4-Methylumbelliferyl a-L-idopyranoside[66901-41-5] C₁₆H₁₈O₈ 338.31

EM03200

0.5mg	\$89.30
1mg	\$168.00
2mg	\$315.00



Refs: Matalon R, et al, Biochem. Biophys. Res. Commun. 1972, 47, p959

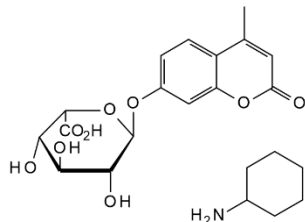
4-Methylumbelliferyl a-L-idopyranosiduronic acid cyclohexylammonium salt

- 4-Methylumbelliferyl a-L-iduronic acid cyclohexylammonium salt
- 4-MU-a-L-IdoA CHX

[66895-33-8] C₁₆H₁₈O₉·C₆H₁₃N 451.47

EM05986

1mg	\$80.00
2mg	\$130.00
5mg	\$225.00



Refs: Matalon R, et al, Biochem. Biophys. Res. Commun. 1972, 47, p959

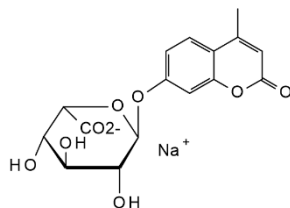
4-Methylumbelliferyl a-L-idopyranosiduronic acid sodium salt

- Sodium (4-methylumbelliferyl a-L-idopyranosid)uronate

[89157-94-8] C₁₆H₁₅NaO₉ 374.27

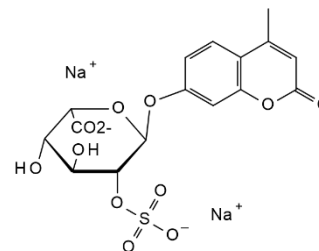
EM04841

1mg	\$70.00
2mg	\$136.50
5mg	\$250.00

**4-Methylumbelliferyl a-L-idopyranosiduronic acid 2-sulphate disodium salt**[1045020-74-3] C₁₆H₁₄Na₂O₁₂S 476.32

EM03201

0.5mg	\$175.00
1mg	\$340.00
2mg	\$640.00

**4-Methylumbelliferyl a-L-idopyranosiduronic acid**

- 4MU a-L-Iduronide

[66966-09-4] C₁₆H₁₆O₉ 352.29

EM05276

1mg	\$50.00
2mg	\$110.00
5mg	\$250.00

**4-Methylumbelliferyl a-L-iduronic acid cyclohexylammonium salt**

see 4-Methylumbelliferyl a-L-idopyranosiduronic acid cyclohexylammonium salt, EM05986 on page 75

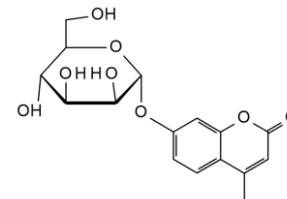
4-Methylumbelliferyl a-D-mannopyranoside

- 4-MU-a-D-Man

[28541-83-5] C₁₆H₁₈O₈ 338.31

EM03179

100mg	\$55.00
250mg	\$95.00
500mg	\$175.00



Methylumbell

4-Methylumbelliferyl 2-amino-2-deoxy-a-D-glucopyranoside

see 4-Methylumbelliferyl a-D-glucosaminide, EM03198 on page 74

4-Methylumbelliferyl 2-amino-2-deoxy-b-D-glucopyranoside

see 4-Methylumbelliferyl b-D-glucosaminide, EM31025 on page 78

4-Methylumbelliferyl a-L-rhamnopyranoside

• 4-MU-a-L-Rha

[106488-05-5] C₁₆H₁₆O₇ 322.32

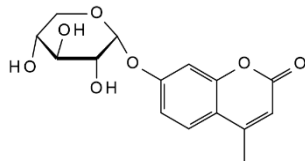
EM05131	5mg	\$175.00
	10mg	\$275.00
	25mg	\$500.00



4-Methylumbelliferyl a-D-xylopyranoside

C₁₅H₁₆O₇ 308.28

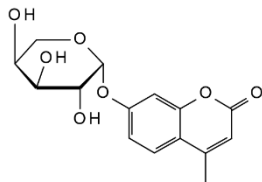
EM10091	50mg	\$63.00
	100mg	\$105.00
	250mg	\$210.00



4-Methylumbelliferyl b-L-arabinopyranoside

C₁₅H₁₆O₇ 308.28

EM06887	1g	\$73.50
	2g	\$147.00
	5g	\$236.30

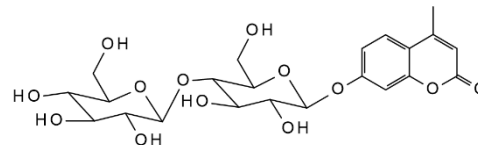


4-Methylumbelliferyl b-D-cellobioside

• 4-MU-b-D-cellobioside

[72626-61-0] C₂₂H₂₆O₁₃ 500.45

EM08000	250mg	\$60.00
	500mg	\$100.00
	1g	\$180.00

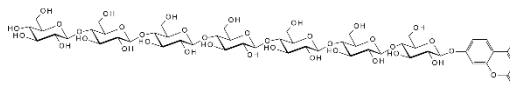


Refs: Gusakov AV, Protas OV, Chernoglazov VM, Sinityn AP, Kovalysheva GV, Shpanchenko OV, Ermolova OV, Biochim. Biophys. Acta 1991, Apr 9, 1073(3), 481-5

4-Methylumbelliferyl b-D-celloheptaoside

[76260-87-2] C₅₂H₇₈O₃₈ 1311.15

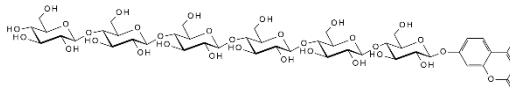
EM28810	2mg	\$2268.00
	5mg	\$4095.00



4-Methylumbelliferyl b-D-cellohexaoside

[84325-21-3] C₄₆H₆₈O₃₃ 1149.01

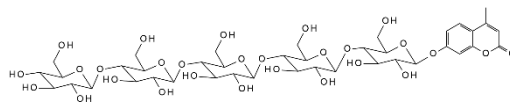
EM28809	1mg	\$750.00
	2mg	\$1300.00
	5mg	\$2150.00



4-Methylumbelliferyl b-D-cellopentoside

[84325-20-2] C₄₀H₅₈O₂₈ 986.89

EM03924	1mg	\$262.50
	2mg	\$472.50
	5mg	\$918.80

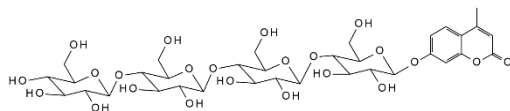


M

4-Methylumbelliferyl b-D-cellobioside[84325-19-9] C₃₄H₄₈O₂₃ 824.73

EM04814

1mg	\$262.50
2mg	\$472.50
5mg	\$787.50

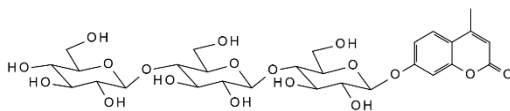
**4-Methylumbelliferyl b-D-celotrioside**

• 7-[(O-b-D-glucopyranosyl-(14)-O-b-D-glucopyranosyl-(14)-b-D-glucopyranosyl)oxy]-4-methyl-2H-1-benzopyran-2-one

[84325-18-8] C₂₈H₃₈O₁₈ 662.6

EM07217

1mg	\$230.00
2mg	\$380.00
5mg	\$800.00

**4-Methylumbelliferyl b-D-chitobiose heptaacetate**

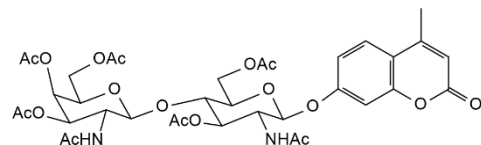
• 4-MU-chitobiose peracetate

• [(4-Methylumbelliferyl)-3,6-di-O-acetyl-N-acetylglucosamine]-4,1-(3,4,6-tri-O-acetyl)-N-acetylglucosamine

[122147-95-9] C₃₆H₄₄N₂O₁₈ 792.74

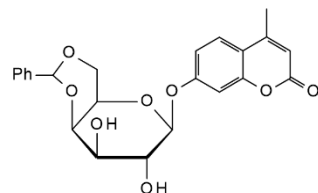
EM07216

1mg	\$89.30
2mg	\$157.50
5mg	\$262.50

**4-Methylumbelliferyl 4,6-O-benzylidene-b-D-galactopyranoside**C₂₃H₂₂O₈ 426.42

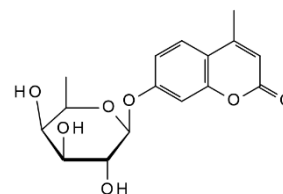
EM07219

50mg	\$52.50
100mg	\$90.00
250mg	\$172.50

**4-Methylumbelliferyl b-D-fucopyranoside**[55487-93-9] C₁₆H₁₈O₇ 322.31

EM05354

25mg	\$66.00
50mg	\$110.50
100mg	\$210.00



Refs: Augur C, Stiefel V, Darvill A, Albersheim P, J. Biol. Chem. 1995, Vol270, No42, p24839-24843

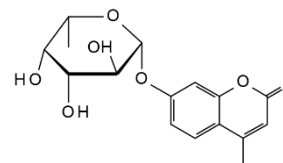
4-Methylumbelliferyl b-L-fucopyranoside

• 4-Methylumbelliferyl b-L-fucoside

[72601-82-2] C₁₆H₁₈O₇ 322.31

EM00650

25mg	\$60.00
50mg	\$110.00
100mg	\$180.00

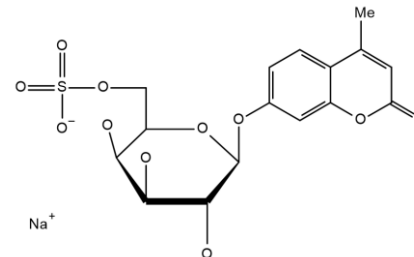
**4-Methylumbelliferyl b-L-fucoside**

see 4-Methylumbelliferyl b-L-fucopyranoside, EM00650 on page 77

4-Methylumbelliferyl b-D-galactopyranoside-6-sulphate sodium salt[126938-14-5][206443-06-3] C₁₆H₁₇NaO₁₁S 440.36

EM05134

5mg	\$65.00
10mg	\$100.00
25mg	\$212.50



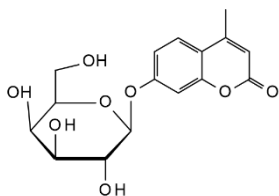
Methylumbell**4-Methylumbelliferyl b-D-galactopyranoside**

• 4-MU-b-D-Gal

[6160-78-7] C₁₆H₁₈O₈ 338.31

EM03211

2g	\$44.00
5g	\$67.50
10g	\$120.00



Refs: Rakhmanova VA, MacDonald RC, . Anal. Biochem. 1998, 257, p234; Vernet M et al, Application of LacZ gene fusions to preimplantation development. Meth. Enzymol. 1993, 225, p434-451

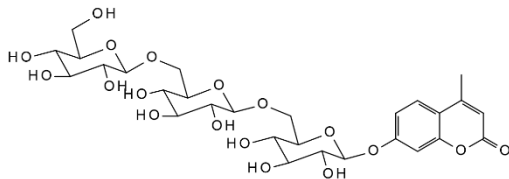
4-Methylumbelliferyl b-D-gentiotrioside

• Glc-b-1-6-Glc-b-1-6-Glc-b-4-MU

[383160-16-5] C₂₈H₃₈O₁₈ 662.59

EM04833

500ug	\$105.00
1mg	\$189.00
2mg	\$315.00

**4-Methylumbelliferyl b-D-glucopyranoside**

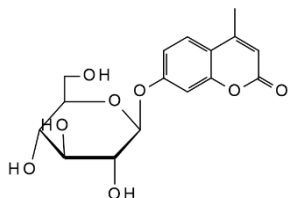
• 4-MU-b-D-Glc

• MUD

[18997-57-4] C₁₆H₁₈O₈ 338.31

EM05983

2g	\$50.00
5g	\$80.00
10g	\$145.00



Refs: Mikhaylova M, Wiederschain G, Mikhaylov V, Aerts JM, Biochem. Biophys. Acta 1996, 1317, p71; Setlow B, Cabrera-Martinez RM, Setlow P, J. Appl. Microbiol. 2004, 96, p1245

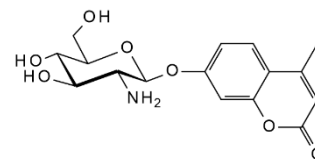
4-Methylumbelliferyl b-D-glucosaminide

• 4-Methylumbelliferyl 2-amino-2-deoxy-b-D-glucopyranoside

[58989-36-9] C₁₆H₁₈NO₇ 337.32

EM31025

10mg \$4500.00

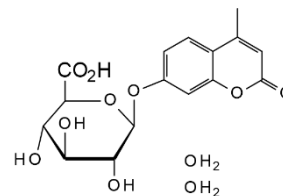
**4-Methylumbelliferyl b-D-glucuronide dihydrate (MUG)**

• MUG

[6160-80-1][881005-91-0] C₁₆H₁₆O₉·2H₂O 388.32

EM05085

5g	\$50.00
10g	\$90.00
25g	\$175.00

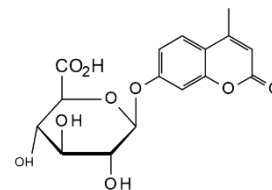
**4-Methylumbelliferyl b-D-glucuronide hydrate**

• MUG

[6160-80-1] C₁₆H₁₆O₉·xH₂O 352.29 (anhydrous basis)

EM03216

5g	\$50.00
10g	\$90.00
20g	\$140.00



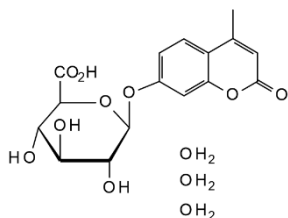
Refs: J. AOAC Int. 2001, 84, p407; Neidhardt S, Havemeister G, Holler C, Gundermann KO, Zentral Hyg. Umweltmed. 1995, 198, p152; Mead JAR, Biochem. J. 1955, 66, p569

4-Methylumbelliferyl b-D-glucuronide trihydrate

- MUG
- 4-MU-b-D-GlcA

[199329-67-4] C₁₆H₁₆O₉·3H₂O 406.34

EM05130	5g	\$50.00
	10g	\$90.00
	25g	\$175.00



Refs: Thompson RB, Richard B, Anal. Lett. 1985, 18, 1847; Beil. 18, V, 7, 616

4-Methylumbelliferyl b-D-glucuronide

EM58443

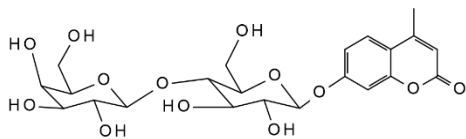
1g \$60.00

**4-Methylumbelliferyl b-D-lactoside**

- MUL
- 4-MU-b-D-Lactoside

[84325-23-5] C₂₂H₂₈O₁₃ 500.45

EM06840	10mg	\$65.00
	25mg	\$115.00
	50mg	\$215.00



Refs: Parry NJ, Beaver DE, Owen E, Vandenberghe I, van Beeumaen J, Bhat MK, Biochem, 2001, 353, p117

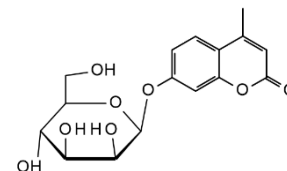
4-Methylumbelliferyl b-D-mannopyranoside

- 4-MU-b-D-Man

[67909-30-2] C₁₆H₁₆O₈ 338.31

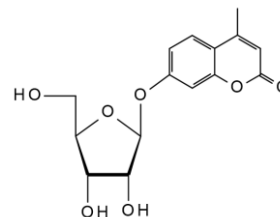
EM06111

25mg	\$60.00
50mg	\$100.00
100mg	\$180.00

**4-Methylumbelliferyl b-D-ribofuranoside**[195385-93-4] C₁₅H₁₆O₇ 308.28

EM06811

50mg	\$60.00
100mg	\$90.00
250mg	\$175.00

**4-Methylumbelliferyl butyrate**

[17695-46-4]

EM15599

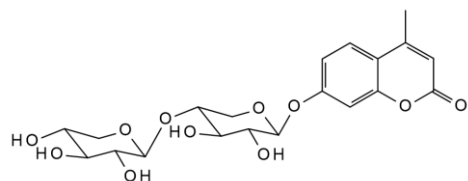
10g	\$65.00
25g	\$125.00
50g	\$200.00



Methylumbell**4-Methylumbelliferyl b-D-xylobioside**[158962-91-5] C₂₀H₂₄O₁₁ 440.4

EM10048

1mg	\$89.30
2mg	\$75.60
5mg	\$168.00

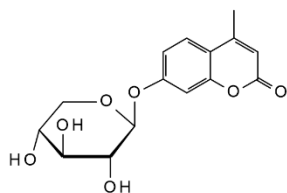
**4-Methylumbelliferyl b-D-xylopyranoside**

• 4-MU-b-D-Xyl

[6734-33-4] C₁₅H₁₆O₇ 308.28

EM03180

500mg	\$65.00
1g	\$100.00
2g	\$180.00



Refs: Looitens FG, DeBruyne CK, Naturwissenschaften 1965, 52, 661; Beil. 18, IV, 338

4-Methylumbelliferyl caprylate

- Octanoic acid 4-methylumbelliferyl ester
- 4-MU-caprylate

[20671-66-3] C₁₈H₂₂O₄ 302.36

EM15597

2g	\$60.00
5g	\$95.00
10g	\$175.00

**4-Methylumbelliferyl 4-Deoxy-β-D-chitobiose Peracetate**[1228931-52-9] C₃₄H₄₂N₂O₁₅ 718.7

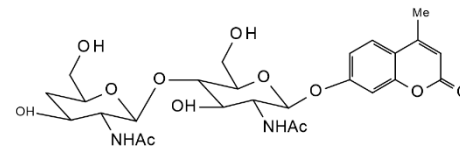
EM72460

Price On Application

**4-Methylumbelliferyl 4-deoxychitobiose**[618446-98-3] C₂₈H₃₄N₂O₁₂ 566.55

EM06116

Price On Application

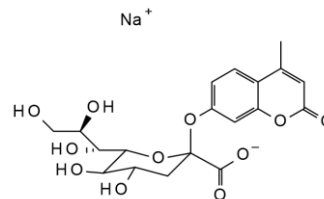
**4-Methylumbelliferyl 3-deoxy-D-glycero-α-D-galacto-2-nonulosonic acid sodium salt**

• 4-Mu-KDN

[123269-95-4][126695-26-9] C₂₁H₂₄NNaO₁₁ 489.41

EM04789

1mg	\$550.00
2mg	\$950.00
5mg	\$1875.00

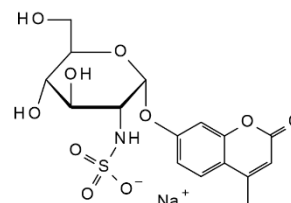
**4-Methylumbelliferyl 2-deoxy-2-sulfamino-α-D-glucopyranoside sodium salt**

- 4-Methylumbelliferyl N-sulpho-α-D-glucosaminide.Na
- 4-MU-GlcNS

[460085-45-4] C₁₈H₁₈NO₁₀SNa 439.37

EM06602

2mg	\$60.00
5mg	\$115.00
10mg	\$220.00

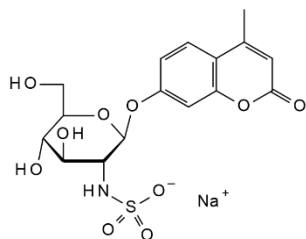


Refs: Karpova EA, et al, J. Inher. Metab. Dis. 1996, 19, p278

4-Methylumbelliferyl 2-deoxy-2-sulfamino-b-D-glucopyranoside sodium saltC₁₆H₁₈NO₁₀Na 439.37

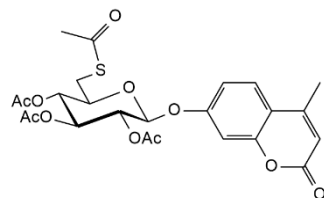
EM09319

1mg	\$150.00
2mg	\$190.00
5mg	\$395.00

**4-Methylumbelliferyl 6-deoxy-2,3,4,6-tetra-O-acetyl-6-thio-b-D-glucopyranoside**C₂₄H₂₆O₁₁S 522.52

EM63429

50mg	\$1200.00
100mg	\$1600.00
250mg	\$3000.00

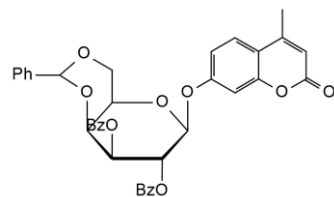
**[(4-Methylumbelliferyl)-3,6-di-O-acetyl-N-acetylglucosamine]-4,1-(3,4,6-tri-O-acetyl)-N-acetylglucosamine**

see 4-Methylumbelliferyl b-D-chitobiose heptaacetate, EM07216 on page 77

4-Methylumbelliferyl 2,3-di-O-benzoyl-4,6-O-benzylidene-b-D-galactopyranosideC₂₇H₃₀O₁₀ 634.63

EM07224

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

**4-Methylumbelliferyl elaidate**[69003-01-6] C₂₈H₄₀O₄ 440.61

EM36288

100mg	\$40.00
250g	\$75.00
500g	\$100.00

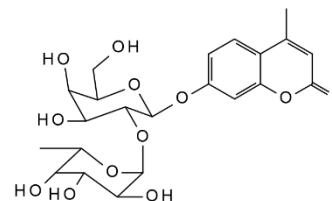
**4-Methylumbelliferyl 2-O-(a-L-fucopyranosyl)-b-D-galactopyranoside**

• Fuc-a-1,2-Gal-b-4MU

[225217-42-5] C₂₂H₂₈O₁₂ 484.45

EM04791

0.5mg	\$105.00
1mg	\$199.50
2mg	\$378.00

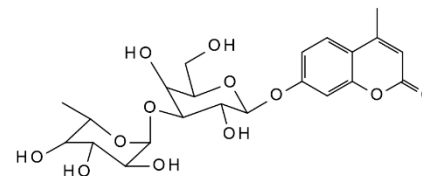
**4-Methylumbelliferyl 3-O-(a-L-fucopyranosyl)-b-D-galactopyranoside**

• Fuc-a-1-3-Gal-b-4MU

[296776-06-2] C₂₂H₂₈O₁₂ 484.45

EM06429

0.5mg	\$99.80
1mg	\$189.00
2mg	\$336.00

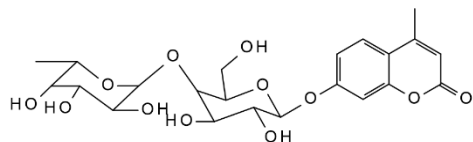


Methylumbell**4-Methylumbelliferyl 4-O-(α -L-fucopyranosyl)- β -D-galactopyranoside**

• Fuc-a-1,4-Gal-b-MU

[383160-15-4] C₂₂H₂₆O₁₂ 484.45

EM06428

5mg \$840.00
10mg \$1522.50**2'-(4-Methylumbelliferyl)- α -D-N-glycolylneuraminic acid**[1434265-32-3] C₂₁H₂₅NO₁₂ 483.42

EM145377

Price On Application

**4-Methylumbelliferyl heptanoate**[18319-92-1] C₁₇H₂₀O₄ 288.34

EM67746

500mg \$60.00
1g \$100.00
2g \$160.00**4-Methylumbelliferyl lewis X trisaccharide nonaacetate glycoside**see 4-Methylumbelliferyl 2-acetamido-3-O-(2,3,4-tri-O-acetyl- α -L-fucopyranosyl)-4-O-(2,3,4,6-tetra-O-acetyl- β -D-galactopyranosyl)-6-O-acetyl-2-deoxy- β -D-glucopyranoside, EM07220 on page 73**4-Methylumbelliferyl lignocerate**

• 4-Methylumbelliferyl tetracosanate

[84434-52-6] C₃₄H₅₄O₄ 526.79

EM65953

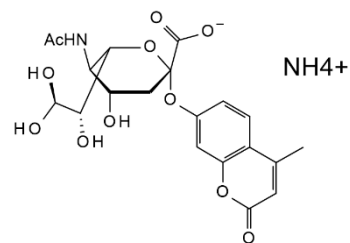
25mg \$60.00
50mg \$100.00
100mg \$160.00**4-Methylumbelliferyl myo-inositol 1-phosphate lithium salt**[244145-22-0] C₁₆H₁₈LiO₁₁P 424.22

EM15810

25mg \$1250.00
50mg \$1850.00**4-Methylumbelliferyl N-acetyl- β -D-galactosamine**see 4-Methylumbelliferyl 2-acetamido-2-deoxy- β -D-galactopyranoside, EM06390 on page 72**4-Methylumbelliferyl N-acetyl- α -D-glucosaminide**see 4-Methylumbelliferyl 2-acetamido-2-deoxy- α -D-glucopyranoside, EM06426 on page 72**4-Methylumbelliferyl N-acetyl- β -D-glucosaminide**see 4-Methylumbelliferyl 2-acetamido-2-deoxy- β -D-glucopyranoside, EM03177 on page 73**4-Methylumbelliferyl N-acetyl- α -D-neuraminic acid ammonium salt**C₂₀H₂₃NO₁₁·NH₄ 471.44

EM09053

Price On Application

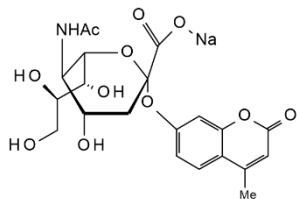


4-Methylumbelliferyl N-acetyl- α -D-neuraminic acid sodium salt

- Neu5Ac- α -4MU
- 4MU-NANA.Na

[76204-02-9] C₂₁H₂₄NNaO₁₁ 489.41

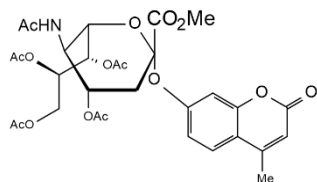
EM05195	25mg	\$60.00
	50mg	\$95.00
	100mg	\$170.00



Refs: Potier M, et al, Anal. Biochem. 1979, 94, p287; Myers RW, et al, Anal. Biochem. 1980, 101, p166

4-Methylumbelliferyl N-acetyl-4,7,8,9-tetra-O-acetyl- α -D-neuraminic acid methyl ester[59361-08-9] C₃₀H₃₅NO₁₅ 649.6

EM04794	5mg	\$89.30
	10mg	\$152.30
	25mg	\$289.00



Refs: Potier M, et al, Anal. Biochem. 1979, 94, p287; Myers RW, et al, Anal. Biochem. 1980, 101, p166

4-Methylumbelliferyl NANA

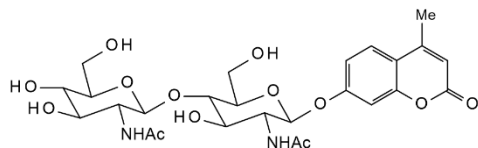
see 4-Methylumbelliferyl-N-acetyl-alpha-D-neuraminide ammonium salt, EM65435 on page 74

4-Methylumbelliferyl N,N-diacetyl-b-D-chitobioside

- N,N'-Diacetyl-4-methylumbelliferyl-b-D-chitobioside

[53643-12-2] C₂₆H₃₄N₂O₁₃ 582.55

EM05129	1mg	\$89.30
	2mg	\$140.00
	5mg	\$300.00

**4-Methylumbelliferyl nonanoate**

- 4-Mu-Nonanoate
- Nonanoic acid 4-methylumbelliferyl ester

[18319-93-2] 316.39

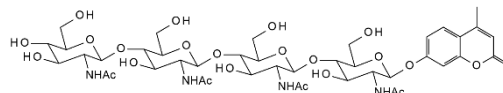
EM52253

Price On Application

**4-Methylumbelliferyl N-sulpho- α -D-glucosaminide.Na**see 4-Methylumbelliferyl 2-deoxy-2-sulfamino- α -D-glucopyranoside sodium salt, EM06602 on page 80**4-Methylumbelliferyl N,N',N'',N'''-tetraacetyl-b-D-chitotetraoside**[53643-14-4] C₄₂H₆₀N₄O₂₃ 988.94

EM04831

1mg	\$577.50
2mg	\$1050.00
5mg	\$1968.80

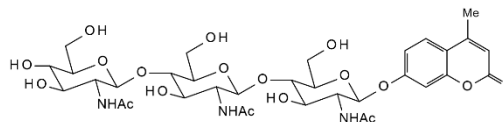


Refs: Tang Y, et al, J. Biochem. 1980, 87, p1003; Inaba T, et al, Chem. Pharm. Bull. 1984, 32, p1597; Tanimoto T, et al, Chem. Pharm. Bull. 1984, 32, p3607; Fukuda H, et al, Chem. Pharm. Bull. 1985, 33, p3375

4-Methylumbelliferyl N,N',N''-triacetyl-b-D-chitotrioside[53643-13-3] C₃₄H₄₇N₃O₁₈ 785.75

EM05139

1mg	\$75.00
2mg	\$130.00
5mg	\$275.00

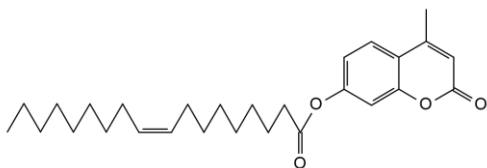


Refs: Tang Y, Hamaguchi KJ, J. Biochem. 1980, 87, p1003

Methylumbell**4-Methylumbelliferyl oleate**[18323-58-5] C₂₈H₄₀O₄ 440.61

EM03203

50mg	\$50.00
100mg	\$73.00
250mg	\$135.00

**4-Methylumbelliferyl palmitate**[17695-48-6] C₂₆H₃₈O₄ 414.58

EM35421

250mg	\$75.00
500mg	\$105.00
1g	\$189.00

**4-Methylumbelliferyl phosphate dilithium salt**

• 4-Mu-Phos-2Li

[125328-83-8] C₁₀H₇O₆P₂Li 268.01

EM52229

250mg	\$85.00
500mg	\$135.00
1g	\$213.90

**4-Methylumbelliferyl phosphate disodium salt trihydrate**

• 4-MUP

[22919-26-2] C₁₀H₁₃Na₂O₉P 354.16

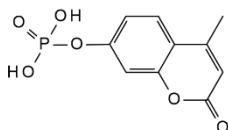
EM29248

1g	\$78.80
2g	\$136.50
5g	\$236.30

**4-Methylumbelliferyl phosphate bis(cyclohexylammonium) salt**[128218-53-1] C₁₀H₉O₆P₂C₆H₁₃N 454.5

EM32193

5g	\$175.00
10g	\$290.00
25g	\$475.00

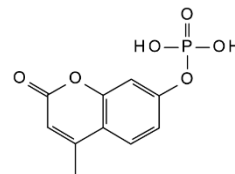
**4-Methylumbelliferyl phosphate disodium salt**

• 4-MUP

[22919-26-2] C₁₀H₇Na₂O₆P 300.11

EM15455

1g	\$50.00
2g	\$90.00
5g	\$195.00

**4-Methylumbelliferyl phosphate di-(2-amino-2-methyl-1,3-propanediol) salt**

• 4-MUP-di(AMPD)

[107475-10-5] C₁₈H₃₁N₂O₁₀P 466.42

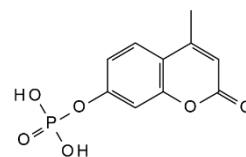
EM46984

1g	\$93.00
2g	\$148.80
5g	\$238.10

**4-Methylumbelliferyl phosphate free acid**[3368-04-5] C₁₀H₉O₆P 256.15

EM09307

500mg	\$55.00
1g	\$89.30
2g	\$157.50

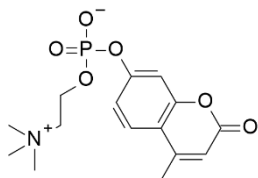


M

4-Methylumbelliferyl phosphocholine[97055-84-0] C₁₅H₂₀NO₆P 341.3

EM25974

5mg	\$120.00
10mg	\$218.00
25mg	\$396.50

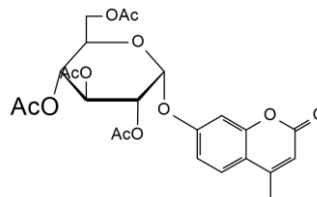


Refs: Freeman, S.J. et al, C.J. Biochem, 63, 272 (1985)

**4-Methylumbelliferyl 2,3,4,6-tetra-O-acetyl-a-D-glucopyranoside**[67945-53-3] C₂₄H₂₆O₁₂ 506.46

EM04826

50mg	\$52.50
100mg	\$90.00
250mg	\$210.00

**4-Methylumbelliferyl propionate**

- 4-Mu-Propionate
- Propionic acid-4-methylumbelliferyl ester

[3361-13-5] 232.23

EM52254

Price On Application

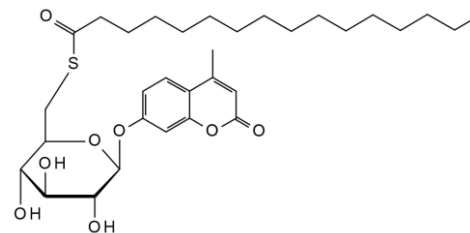
**4-Methylumbelliferyl tetracosanate**

see 4-Methylumbelliferyl lignocerate, EM65953 on page 82

4-Methylumbelliferyl 6-thio-palmitate-b-D-glucopyranoside[229644-17-1] C₃₂H₄₈O₈S 592.78

EM06650

1mg	\$60.00
2mg	\$90.00
5mg	\$145.00



Refs: van Diggelen OP, et al, Mol. Gen. Metabol. 1999, 66, p240

**4-Methylumbelliferyl pyrophosphate diester disodium salt**

- Bis(4-methylumbelliferyl)pyrophosphoric acid disodium salt

[84282-11-1] C₂₀H₁₄O₁₁P₂·2Na 538.25

EM52292

2g	\$60.00
5g	\$125.00
10g	\$200.00

**4-Methylumbelliferyl sulfate potassium salt**[15220-11-8] C₁₀H₇KO₆S 294.32

EM15697

1g	\$50.00
2g	\$70.00
5g	\$110.00



Methylumbell

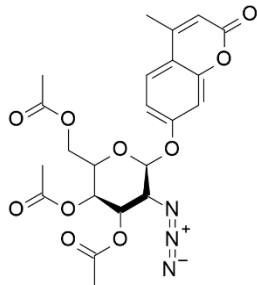
4-Methylumbelliferyl 3,4,6-tri-O-acetyl-2-deoxy-a-D-galactopyranoside

• 4-Methyl-7-[(3,4,6-tri-O-acetyl-2-deoxy-a-D-galactopyranosyl)oxy]-2H-1-benzopyran-2-one

[124167-43-7] C₂₂H₂₃N₃O₁₀ 489.43

EM16473

10mg \$149.90
25mg \$272.50
50mg \$496.00



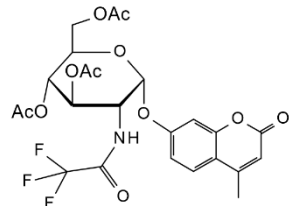
Refs: Szweda, R. et. al, Can. J. Chem. 67, 1388 (1989)

4-Methylumbelliferyl 3,4,6-tri-O-acetyl-2-deoxy-2-trifluoroacetamido-a-D-glucopyranoside

[137686-92-1] C₂₄H₂₄F₃NO₁₁ 559.44

EM05984

5mg \$89.30
10mg \$168.00
25mg \$336.00

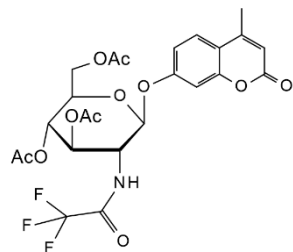


4-Methylumbelliferyl 3,4,6-tri-O-acetyl-2-deoxy-2-trifluoroacetamido-b-D-glucopyranoside

[137686-93-2] C₂₄H₂₄F₃NO₁₁ 559.44

EM03204

25mg \$89.50
50mg \$168.00
100mg \$368.00

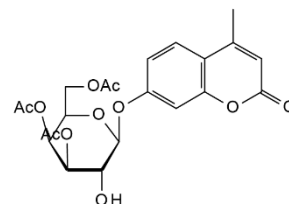


4-Methylumbelliferyl 3,4,6-tri-O-acetyl-b-D-galactopyranoside

C₂₂H₂₄O₁₁ 464.42

EM07191

5mg \$94.50
10mg \$183.80
25mg \$420.00

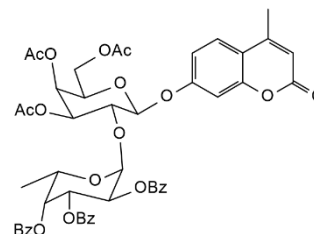


4-Methylumbelliferyl 3,4,6-tri-O-acetyl-2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)-b-D-galactopyranoside

C₄₉H₄₆O₁₈ 922.9

EM07190

1mg \$94.50
2mg \$183.80
5mg \$420.00

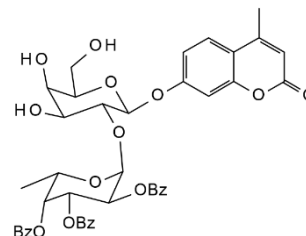


4-Methylumbelliferyl 2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)-b-D-galactopyranoside

C₄₃H₄₀O₁₅ 796.77

EM07189

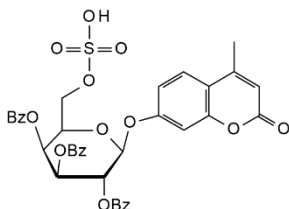
1mg \$94.50
2mg \$183.80
5mg \$420.00



4-Methylumbelliferyl 2,3,4-tri-O-benzoyl-b-D-galactopyranoside-6-sulfateC₃₇H₃₀O₁₄S 730.69

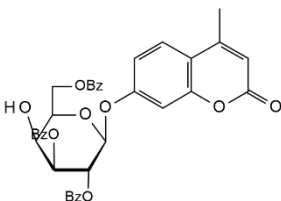
EM07348

10mg	\$63.00
25mg	\$131.50
50mg	\$210.00

**4-Methylumbelliferyl 2,3,6-tri-O-benzoyl-b-D-galactopyranoside**C₃₇H₃₀O₁₁ 650.63

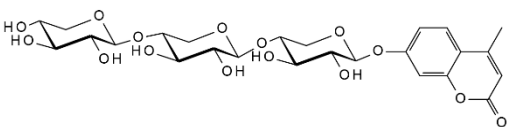
EM07188

1mg	\$89.30
2mg	\$168.00
5mg	\$315.00

**4-Methylumbelliferyl-b-D-xylotriose**[250252-60-9] C₂₅H₃₂O₁₅ 572.51

EM36495

5mg	\$310.00
10mg	\$450.00

**MFM**

see Monofluoresceinated mannitol, EM04423 on page 87

MNP-Glc

see [2-Methoxy-4-(2-nitrovinyl)phenyl] b-D-glucopyranoside, EM06789 on page 68

Monocaprin

see 1-Decanoyl-rac-glycerol, DD45213 on page 44

rac-1-Monocaprylglycerol

see 1-Decanoyl-rac-glycerol, DD45213 on page 44

n-Monododecanoate a-D-glucopyranoside

see Dodecanoyl D-sucrose, DD06810 on page 50

Monofluoresceinated mannitol

• MFM

C₂₇H₂₄O₁₂ 540.46

EM04423

5mg	\$120.80
10mg	\$204.80
25mg	\$446.50

**mono-Rhamnolipid**

see Rhamnolipid, DR45784 on page 148

MPT-NAG

see 6-Methyl-2-pyridyl 2-acetamido-2-deoxy-b-D-thioglucoopyranoside, EM10847 on page 70

4MU a-L-iduronide

see 4-Methylumbelliferyl a-L-idopyranosiduronic acid, EM05276 on page 75

4-MU-a-L-Ara

see 4-Methylumbelliferyl a-L-arabinopyranoside, EM03176 on page 70

4-MU-caprylate

see 4-Methylumbelliferyl caprylate, EM15597 on page 80

4-MU-b-D-cellobioside

see 4-Methylumbelliferyl b-D-cellobioside, EM08000 on page 76

4-MU-chitobiose peracetate

see 4-Methylumbelliferyl b-D-chitobiose heptaacetate, EM07216 on page 77

MUD

see 4-Methylumbelliferyl b-D-glucopyranoside, EM05983 on page 78

MUFuc**4-MU-a-L-Fuc**

see 4-Methylumbelliferyl a-L-fucopyranoside, EM01930 on page 74

4-MU-a-D-Gal

see 4-Methylumbelliferyl a-D-galactopyranoside, EM05182 on page 74

4-MU-b-D-Gal

see 4-Methylumbelliferyl b-D-galactopyranoside, EM03211 on page 78

4-MU-b-D-GlcA

see 4-Methylumbelliferyl b-D-glucuronide trihydrate, EM05130 on page 79

4-MU-GlcNAc

see 4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-glucopyranoside, EM03177 on page 73

4-MU-GlcNS

see 4-Methylumbelliferyl 2-deoxy-2-sulfamino-a-D-glucopyranoside sodium salt, EM06602 on page 80

4-MU-b-D-Glc

see 4-Methylumbelliferyl b-D-glucopyranoside, EM05983 on page 78

4-MU-alpha-D-glucoside

see 4-Methylumbelliferyl a-D-glucopyranoside, EM06820 on page 74

MUG

see 4-Methylumbelliferyl b-D-glucuronide dihydrate (MUG), EM05085 on page 78

MUG

see 4-Methylumbelliferyl b-D-glucuronide hydrate, EM03216 on page 78

MUG

see 4-Methylumbelliferyl b-D-glucuronide trihydrate, EM05130 on page 79

4-Mu-KDN

see 4-Methylumbelliferyl 3-deoxy-D-glycero-a-D-galacto-2-nonulosonic acid sodium salt, EM04789 on page 80

4-MU-b-D-Lactoside

see 4-Methylumbelliferyl b-D-lactoside, EM06840 on page 79

4-MU-a-L-IdoA CHX

see 4-Methylumbelliferyl a-L-idopyranosiduronic acid cyclohexylammonium salt, EM05986 on page 75

MUL

see 4-Methylumbelliferyl b-D-lactoside, EM06840 on page 79

4-MU-a-D-Man

see 4-Methylumbelliferyl a-D-mannopyranoside, EM03179 on page 75

4-MU-b-D-Man

see 4-Methylumbelliferyl b-D-mannopyranoside, EM06111 on page 79

4MU-NANA.Na

see 4-Methylumbelliferyl N-acetyl-a-D-neuraminic acid sodium salt, EM05195 on page 83

4-MU NANA

see 4-Methylumbelliferyl-N-acetyl-alpha-D-neuraminide ammonium salt, EM65435 on page 74

4-Mu-Nonanoate

see 4-Methylumbelliferyl nonanoate, EM52253 on page 83

4-MUP-di(AMPD)

see 4-Methylumbelliferyl phosphate di-(2-amino-2-methyl-1,3-propanediol) salt, EM46984 on page 84

4-Mu-Phos-2Li

see 4-Methylumbelliferyl phosphate dilithium salt, EM52229 on page 84

4-Mu-Propionate

see 4-Methylumbelliferyl propionate, EM52254 on page 85

4-MUP

see 4-Methylumbelliferyl phosphate disodium salt, EM15455 on page 84

4-MUP

see 4-Methylumbelliferyl phosphate disodium salt trihydrate, EM29248 on page 84

4-MU-a-L-Rha

see 4-Methylumbelliferyl a-L-rhamnopyranoside, EM05131 on page 76

M

4-MU-b-D-Xyl

see 4-Methylumbelliferyl b-D-xylopyranoside, EM03180 on page 80

Nalpha-CBZ-L-Citrulline-p-nitroanilide

EN67742	1g	\$50.00
	2g	\$80.00
	5g	\$150.00

**Nalpha-2,4-DNP-L-lysine hydrochloride**

see 2,4-Dinitrophenyl-L-lysine hydrochloride monohydrate, ED66137 on page 49

X-NANA.Na

see 5-Bromo-4-chloro-3-indolyl N-acetyl-a-D-neuraminic acid sodium salt, EB02506 on page 25

X-Nana

see 5-Bromo-4-chloro-3-indolyl N-acetyl-a-D-neuraminic acid ammonium salt, EB07947 on page 25

b-Nap-a-L-Fuc

see 2-Naphthyl a-L-fucopyranoside, EN06432 on page 92

a-Nap-a-D-Gal

see 1-Naphthyl a-D-galactopyranoside, EN05124 on page 93

a-Nap-b-D-Gal

see 1-Naphthyl b-D-galactopyranoside, EN05126 on page 93

b-Nap-b-D-GlcA.Na

see 2-Naphthyl b-D-glucuronide sodium salt, EN03259 on page 94

a-Nap-a-D-Glc

see 1-Naphthyl a-D-glucopyranoside, EN05125 on page 93

1-Naphthalenol dihydrogen phosphate disodium salt

see a-Naphthyl phosphate disodium salt, EN52455 on page 95

1-Naphthalenyl b-D-glucopyranosiduronic acid

see 1-Naphthyl b-D-glucuronide, EN15504 on page 94

Naphthol AS-BI beta-L-fucopyranoside

EN65526	1mg	\$50.00
	2mg	\$80.00
	5mg	\$150.00

**Naphthol AS-BI beta-D-glucopyranoside**

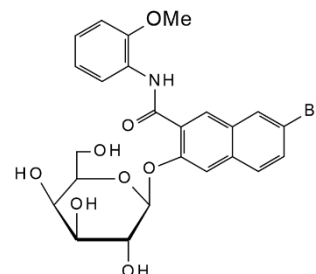
EN65800	25mg	\$55.00
	50mg	\$100.00
	100mg	\$180.00

**Naphthol AS-BI b-D-galactopyranoside**

• 7-Bromo-3-(b-D-galactopyranosyloxy)-N-(2-methoxyphenyl)-2-naphthalenecarboxamide

[51349-63-4] C₂₄H₂₄BrNO₈ 534.35

EN03280	250mg	\$97.50
	500mg	\$160.00
	1g	\$294.00



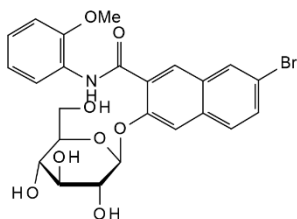
Refs: Gossrau R, Histochemie 1973, 37, 89



NaphtholASBI**Naphthol AS-BI b-D-glucopyranoside**C₂₄H₂₄BrNO₈ 534.35

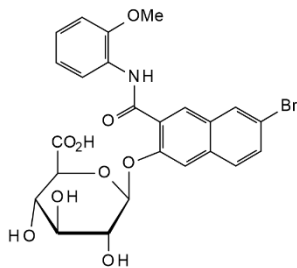
EN06875

1g	\$136.50
2g	\$210.00
5g	\$341.30

**Naphthol AS-BI b-D-glucuronide**[37-87-6] C₂₄H₂₂BrNO₉ 548.34

EN03283

25mg	\$50.00
50mg	\$90.00
100mg	\$140.00

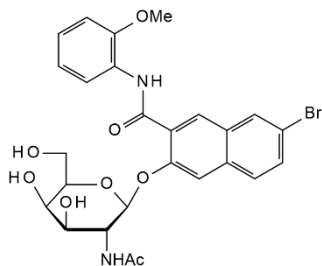


Refs: Hayashi M, J. Histochem. Cytochem. 1964, 12, 293-7

**Naphthol AS-BI N-acetyl-b-D-galactosaminide**C₂₆H₂₇BrN₂O₈ 575.41

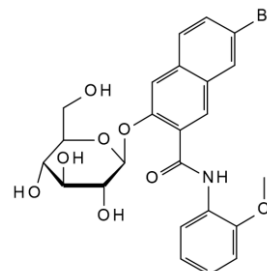
EN09607

50mg	\$94.50
100mg	\$158.00
250mg	\$262.50

**Naphthol AS-BI N-acetyl-b-D-glucosaminide**[3395-37-7] C₂₆H₂₇BrN₂O₈ 575.41

EN06141

100mg	\$132.00
250mg	\$237.50
500mg	\$370.00



Refs: Vladutiu GD, Biosci. Rep. 1984, Vol4, No12, p1079-1088

Naphthol AS-BI sulphate potassium salt[1680-70-2] C₁₈H₁₃BrNO₆S·K 490.37

EN66177

100mg	\$50.00
250mg	\$100.00
500mg	\$180.00

**Naphthol AS-CL phosphate**[18228-16-5] C₁₈H₁₅ClNO₆P 407.74

EN67711

500mg	\$75.00
1g	\$100.00
2g	\$150.00

**Naphthol AS-E acetate**

• C.I.37510

[84100-15-2]

EN66474

250mg	\$55.00
500mg	\$90.00
1g	\$155.00



N

Naphthol AS-E phosphate

[18228-17-6] $C_{17}H_{13}ClNO_3P$ 377.72

EN69791	250mg	\$45.00
	500mg	\$75.00
	1g	\$120.00



Naphthol AS-MX acetate

[4569-00-0] $C_{21}H_{19}NO_3$ 333.38

EN70265	1g	\$55.00
	2g	\$96.00
	5g	\$200.00



Naphthol AS nonanoate

[10523-82-7] $C_{26}H_{29}NO_3$ 403.51

EN70035	25mg	\$55.00
	50mg	\$97.50
	100mg	\$156.00



Naphthol AS-OL acetate

[7128-79-2]

EN68082	2g	\$68.00
	5g	\$140.00
	10g	\$220.00



Naphthol AS-OL

- C.I. 37530
- 3-Hydroxy-2-naphtho-o-anisidine

[135-62-6] $C_{18}H_{15}NO_3$ 293.32

EN71191	50g	\$60.00
	100g	\$100.00
	250g	\$175.00



Naphthol AS sulphate potassium salt

EN67749	5mg	\$50.00
	10mg	\$80.00
	25mg	\$150.00



Naphthol AS-TR phosphate

[2616-72-0]

EN70036	50mg	\$60.00
	100mg	\$90.00
	250mg	\$185.00



Naphthol AS-D

- 3-Hydroxy-2-naphtho-toluidide
- C.I. 37520

[135-61-5] $C_{18}H_{15}NO_2$ 277.32

EN70199	5g	\$51.00
	10g	\$82.00
	25g	\$130.00



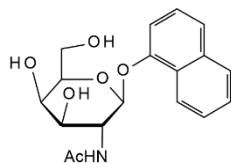
Naphthylacet**1-Naphthyl 2-acetamido-2-deoxy-b-D-galactopyranoside**

• 1-Naphthyl N-acetyl-b-D-galactosaminide

C₁₈H₂₁NO₆ 347.4

EN06878

1g	\$168.00
2g	\$294.00
5g	\$525.00

**1-Naphthyl-2-acetamido-2-deoxy-b-D-glucopyranose**C₁₈H₂₁NO₆ 347.36

EN06876

Price On Application

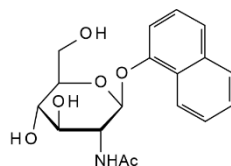
**1-Naphthyl 2-acetamido-2-deoxy-b-D-glucopyranoside**

• 1-Naphthyl N-acetyl-b-D-glucosaminide

[10329-98-3] C₁₈H₂₁NO₆ 347.36

EN02476

100mg	\$145.00
250mg	\$235.00
500mg	\$310.00



Refs: ,

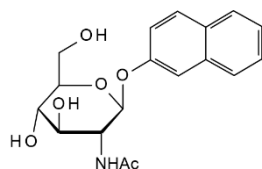
**2-Naphthyl 2-acetamido-2-deoxy-b-D-glucopyranoside**

• 2-Naphthyl N-acetyl-b-D-glucosaminide

[131531-82-3] C₁₈H₂₁NO₆ 347.36

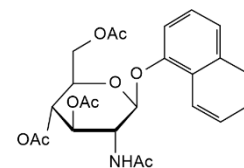
EN01846

2g	\$950.00
5g	\$1725.00
10g	\$2400.00

**1-Naphthyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside**[121356-12-5] C₂₄H₂₇NO₉ 473.47

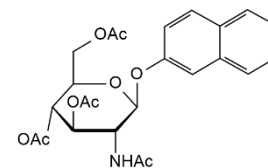
EN01840

1g	\$210.00
5g	\$840.00
10g	\$1470.00

**2-Naphthyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside**[131531-80-1] C₂₄H₂₇NO₉ 473.47

EN05025

1g	\$315.00
5g	\$1050.00
10g	\$1680.00

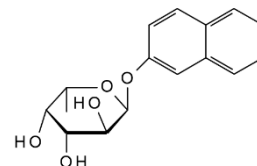
**2-Naphthyl a-L-fucopyranoside**

• b-Nap-a-L-Fuc

[63503-05-9] C₁₆H₁₈O₅ 290.31

EN06432

25mg	\$50.00
50mg	\$75.00
100mg	\$120.00



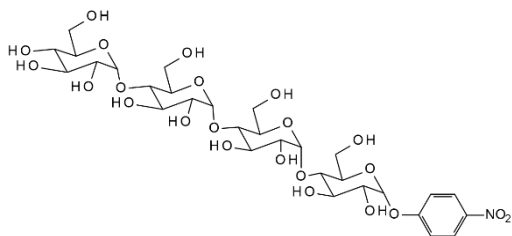
1-Naphthyl a-D-galactopyranoside

• a-Nap-a-D-Gal

[65174-63-2] C₁₆H₁₈O₆ 306.31

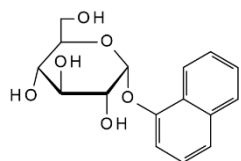
EN05124

5mg	\$75.00
10mg	\$100.00
25mg	\$200.00

**1-Naphthyl a-D-glucopyranoside**• a-Naphthyl-a-D-glucoside
• a-Nap-a-D-Glc[208647-48-7] C₁₆H₁₈O₆ 306.31

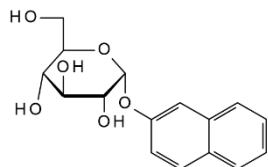
EN05125

Price On Application

**2-Naphthyl a-D-glucopyranoside**[25320-79-0] C₁₆H₁₈O₆ 306.31

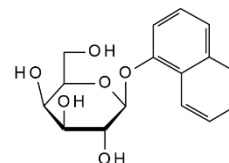
EN06601

100mg	\$50.00
250mg	\$100.00
500mg	\$160.00

**1-Naphthyl b-D-galactopyranoside**• a-Naphthyl-b-D-galactoside
• a-Nap-b-D-Gal[41335-32-4] C₁₆H₁₈O₆ 306.32

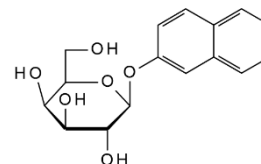
EN05126

250mg	\$60.00
500mg	\$100.00
1g	\$160.00

**2-Naphthyl b-D-galactopyranoside**[33993-25-8] C₁₆H₁₈O₆ 306.31

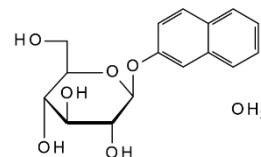
EN03302

1g	\$60.00
2g	\$100.00
5g	\$200.00

**2-Naphthyl b-D-glucopyranoside monohydrate**[6044-30-0] C₁₆H₁₈O₆·H₂O 324.33

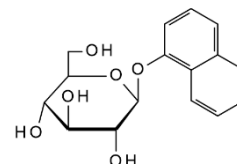
EN06885

1g	\$68.30
2g	\$94.50
5g	\$157.50

**1-Naphthyl b-D-glucopyranoside**[19939-82-3] C₁₆H₁₈O₆ 306.31

EN05127

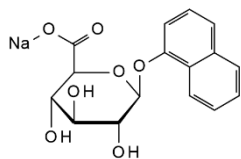
1g	\$57.80
2g	\$94.50
5g	\$204.80



Naphthylbglu**1-Naphthyl b-D-glucuronide sodium salt**[83833-12-9] C₁₆H₁₅NaO₇ 342.28

EN05128

25mg	\$50.00
50mg	\$90.00
100mg	\$150.00

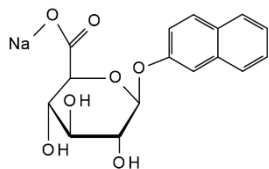
**2-Naphthyl b-D-glucuronide sodium salt**

• b-Nap-b-D-GlcA.Na

[20838-64-6] C₁₆H₁₅NaO₇ 342.28

EN03259

Price On Application

**1-Naphthyl b-D-glucuronide**

• 1-Naphthalenyl b-D-glucopyranosiduronic acid

[17238-47-0] C₁₆H₁₆O₇ 320.29

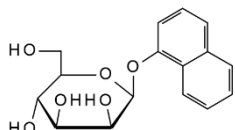
EN15504

1mg	\$225.00
2mg	\$420.00
5mg	\$925.00

**1-Naphthyl b-D-mannopyranoside**[84297-22-3] C₁₆H₁₆O₆ 306.31

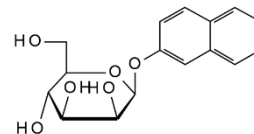
EN06884

500mg	\$105.00
1g	\$189.00
2g	\$315.00

**2-Naphthyl b-D-mannopyranoside**[212140-32-4] C₁₆H₁₆O₆ 306.31

EN06882

Price On Application

**2-Naphthyl butyrate**

- Butanoic acid 2-naphthyl ester
- b-Naphthyl butyrate

[5856-33-7] C₁₄H₁₄O₂ 214.26

EN10875

250mg	\$120.00
500mg	\$175.00
1g	\$250.00

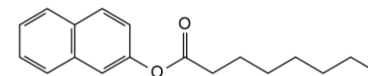
**b-Naphthyl butyrate**

see 2-Naphthyl butyrate, EN10875 on page 94

2-Naphthyl caprylate[10251-17-9] C₁₈H₂₂O₂ 270.37

EN11356

250mg	\$75.00
500mg	\$120.00
1g	\$200.00

**1-Naphthyl disodium orthophosphate**

see a-Naphthyl phosphate disodium salt, EN52455 on page 95

a-Naphthyl-b-D-galactoside

see 1-Naphthyl b-D-galactopyranoside, EN05126 on page 93

a-Naphthyl-a-D-glucoside

see 1-Naphthyl a-D-glucopyranoside, EN05125 on page 93

b-Naphthyl-b-maltotriosideC₂₈H₃₈O₁₆ 630.59

EN36498

25mg	\$150.00
50mg	\$225.00
100mg	\$375.00

**1-Naphthyl-alpha-D-mannopyranoside**

• 1-Naphthyl-alpha-D-mannose

EN66033

100mg	\$50.00
250mg	\$100.00
500mg	\$180.00

**1-Naphthyl-alpha-D-mannose**

see 1-Naphthyl-alpha-D-mannopyranoside, EN66033 on page 95

1-Naphthyl N-acetyl-b-D-galactosaminide

see 1-Naphthyl 2-acetamido-2-deoxy-b-D-galactopyranoside, EN06878 on page 92

1-Naphthyl N-acetyl-b-D-glucosaminide

see 1-Naphthyl 2-acetamido-2-deoxy-b-D-glucopyranoside, EN02476 on page 92

2-Naphthyl N-acetyl-b-D-glucosaminide

see 2-Naphthyl 2-acetamido-2-deoxy-b-D-glucopyranoside, EN01846 on page 92

2-Naphthylphosphate calcium salt

see Calcium 2-naphthylphosphate, EC71044 on page 32

a-Naphthyl phosphate disodium salt

- 1-Naphthalenol dihydrogen phosphate disodium salt
- 1-Naphthyl disodium orthophosphate

[2183-17-7] C₁₀H₇O₄P₂Na 268.11

EN52455

5g	\$200.00
10g	\$325.00
25g	\$750.00

**beta-Naphthyl stearate**[6343-74-4] C₂₈H₄₂O₂ 410.63

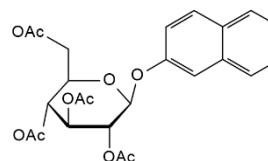
EN70958

2g	\$50.00
5g	\$100.00
10g	\$160.00

**2-Naphthyl 2,3,4,6-tetra-O-acetyl-b-D-glucopyranoside**[14581-89-6] C₂₄H₂₆O₁₀ 474.47

EN09734

50mg	\$63.00
100mg	\$105.00
250mg	\$197.50

**NBT**

see Nitroblue tetrazolium chloride, EN13587 on page 96

Neu5Aca(2-3)Galb(1-3)GlcNAc-a-pNP

see 4-Nitrophenyl (N-acetyl-a-neuraminosyl)-(2→3)-O-b-D-galactopyranosyl-(1→3)-2-acetamido-2-deoxy-a-D-galactopyranoside, EN153397 on page 97

Neu5Aca(2-3)Galb(1-4)GlcNAc-b-pNP

see 4-Nitrophenyl O-(N-acetyl-a-neuraminosyl)-(2-3)-b-D-galactopyranosyl-(1-4)-2-acetamido-2-deoxy-b-D-glucopyranoside, EN46140 on page 126

NeuAcaGalbGI

Neu5Aca(2-6)Galb(1-3)GlcNAc-b-pNP

see 4-Nitrophenyl O-(N-acetyl-a-neuraminosyl)-(2-6)-b-D-galactopyranosyl-(1-4)-2-acetamido-2-deoxy-b-D-glucopyranoside, EN46141 on page 126

Neu5Aca(2-3)Galb(1-4)Glc-b-pNP

see 4-Nitrophenyl O-(N-acetyl-a-neuraminosyl)-(2-3)-b-D-galactopyranosyl-(1-4)-b-D-glucopyranoside, EN46142 on page 126

Neu5Ac(a2-6)Gal(b1-4)GalNAc-b-4-nitrophenol

see Neu5Ac(a2-6)Gal(b1-3)GlcNAc-b-pNP, EN16222 on page 96

Neu5Ac(a2-6)Gal(b1-3)GlcNAc-b-pNP

• Neu5Ac(a2-6)Gal(b1-4)GalNAc-b-4-nitrophenol

C₃₁H₄₅N₃O₂₁ 795.7

EN16222

1mg

\$645.80



Neu5Ac-a-4MU

see 4-Methylumbelliferyl N-acetyl-a-D-neuraminic acid sodium salt, EM05195 on page 83

Neu5Ac-a-PNP.Na

see 2-O-(4-Nitrophenyl)-a-D-N-acetylneuraminic acid sodium salt, EN07314 on page 106

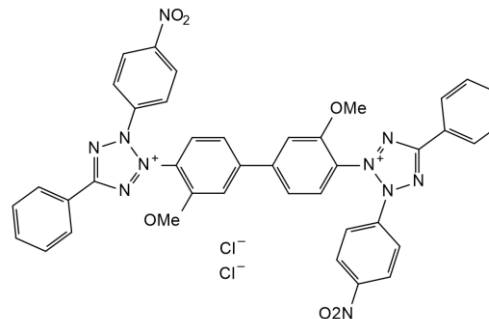
Nitroblue tetrazolium chloride

• NBT
• 2,2'-bis(4-Nitrophenyl)-5,5'-diphenyl-3,3'-(3,3'-dimethoxy-4,4'-diphenylene)ditetrazolium chloride

[298-83-9] C₄₀H₃₀Cl₂N₁₀O₆ 817.64

EN13587

1g \$46.00
2g \$70.00
5g \$110.00



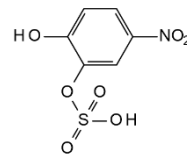
4-Nitrocatechol sulfate dipotassium salt

• 2-Hydroxy-5-nitrophenyl sulfate dipotassium salt monohydrate

[14528-64-4] C₆H₃NO₇SK₂ 311.35

EN59562

1g \$135.00
2g \$250.00
5g \$480.00



Nitrocefin

• 3-(2,4-Dinitrostyryl)-(6R, 7R)-7-(2-thienylacetamido)-ceph-3-em-4-carboxylic acid

[41906-86-9] C₂₁H₁₆N₄O₈S₂ 516.51

EN46644

1mg \$69.00
2mg \$110.00
5mg \$200.00



5-Nitroindole-3-Carboxylic Acid

[6958-37-8] 206.16

EN56760

Price On Application

**4-Nitrophenyl (N-acetyl-a-neuraminosyl)-(2→3)-O-b-D-galactopyranosyl-(1→3)-2-acetamido-2-deoxy-a-D-galactopyranoside**

- Neu5Aca(2-3)Galb(1-3)GlcNAc-a-pNP
- a-pNP 3'-Sialylgalacto-N-bioside

[103782-24-7] C₃₁H₄₅N₃O₂₁ 795.7

EN153397

Price On Application

**4-Nitrophenyl (N-acetyl-a-neuraminosyl)-(2→3)-O-b-D-galactopyranosyl-(1→3)-2-acetamido-2-deoxy-b-D-galactopyranoside**[1363424-95-6] C₃₁H₄₅N₃O₂₁ 795.7

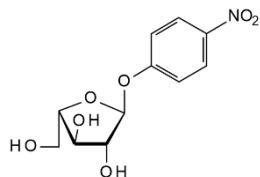
EN153398

Price On Application

**4-Nitrophenyl a-L-arabinofuranoside**[6892-58-6] C₁₁H₁₃NO₇ 271.22

EN03244

100mg	\$60.00
250mg	\$125.00
500mg	\$200.00



Refs: Beil. 17/6, V, 192

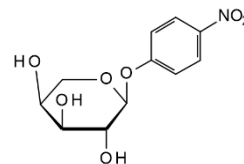
**4-Nitrophenyl a-L-arabinopyranoside**

- PNP-a-arabinoside

[1223-07-0] C₁₁H₁₃NO₇ 271.22

EN06879

50mg	\$47.50
100mg	\$79.00
250mg	\$132.50

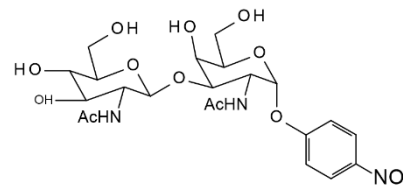
**4-Nitrophenyl 2-acetamido-3-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside**

- GlcNAc-b-1,3-GalNAc-a-PNP

[125455-64-3] C₂₂H₃₁N₃O₁₃ 545.49

EN05763

1mg	\$89.30
2mg	\$157.50
5mg	\$288.80

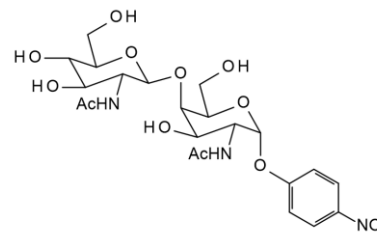
**4-Nitrophenyl 2-acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside**

- GlcNAc-b-1-4-GalNAc-a-PNP

C₂₂H₃₁N₃O₁₃ 545.49

EN06135

0.5mg	\$99.80
1mg	\$178.50
2mg	\$273.00



Refs: Medina M, et al, Cancer Res. 1999, 59, 1061-1070



Nitrophenyla

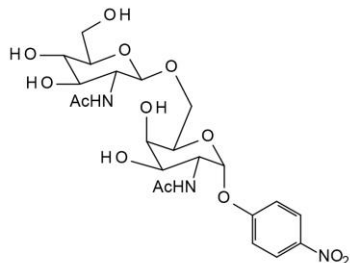
4-Nitrophenyl 2-acetamido-6-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside

• GicNAc-b-1-6-GalNAc-a-PNP

[235752-73-5] C₂₂H₃₁N₃O₁₃ 545.49

EN06448

0.5mg	\$199.50
1mg	\$336.00
2mg	\$630.00

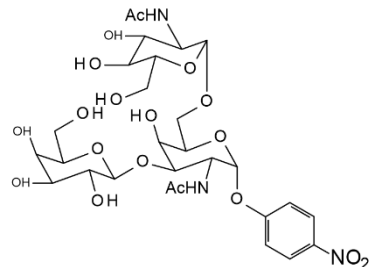


Refs: Medina M, et al, Cancer Res. 1999, 59, 1061-1070

4-Nitrophenyl 2-acetamido-6-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-3-O-(b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranoside[139459-55-5] C₂₈H₄₁N₃O₁₈ 707.63

EN05361

0.5mg	\$131.30
1mg	\$241.50
2mg	\$441.00

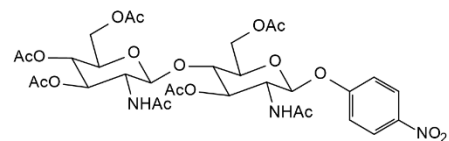
**4-Nitrophenyl 2-acetamido-4-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)-3,6-di-O-acetyl-2-deoxy-b-D-glucopyranoside**

• 1-(4-Nitrophenyl)-N,N'-diacetyl-3,6,3',4',6'-penta-O-acetylchitobioside

[7284-19-7] C₃₂H₄₁N₃O₁₈ 755.68

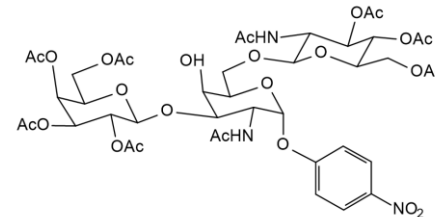
EN06466

1mg	\$63.00
2mg	\$89.30
5mg	\$157.50

**4-Nitrophenyl 2-acetamido-6-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranoside**C₄₂H₅₅N₃O₂₅ 1001.89

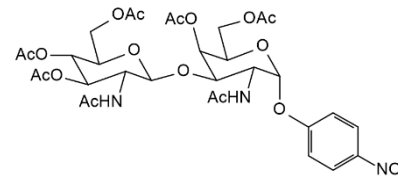
EN07321

1mg	\$105.00
2mg	\$189.00
5mg	\$441.00

**4-Nitrophenyl 2-acetamido-3-O-(2-acetamido-3,4,6-tri-O-acetyl-b-D-glucopyranosyl)-4,6-di-O-acetyl-2-deoxy-a-D-galactopyranoside**C₃₂H₄₁N₃O₁₈ 755.68

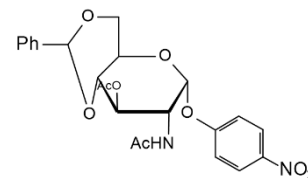
EN06445

1mg	\$89.30
5mg	\$178.50
10mg	\$315.00

**4-Nitrophenyl 2-acetamido-3-O-acetyl-4,6-O-benzylidene-2-deoxy-a-D-glucopyranoside**[23262-56-8] C₂₃H₂₄N₂O₉ 472.44

EN04940

100mg	\$90.00
250mg	\$185.00
500mg	\$315.00



4-Nitrophenyl 2-acetamido-3-O-acetyl-4,6-O-benzylidene-2-deoxy-a-D-glucopyranoside

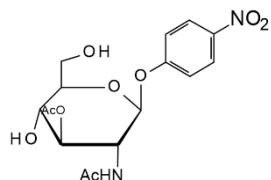
EN43874

Price On Application

**4-Nitrophenyl 2-acetamido-3-O-acetyl-2-deoxy-b-D-glucopyranoside**[23262-57-9] C₁₆H₂₀N₂O₉ 384.34

EN04914

50mg	\$89.50
100mg	\$168.00
250mg	\$262.50

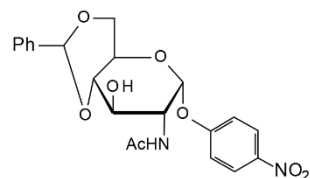
**4-Nitrophenyl 2-acetamido-2-deoxy-(4-O-2-acetamido-2-deoxy-b-D-glucopyranosyl)-b-D-glucopyranoside**

see 4-Nitrophenyl N,N'-diacetyl-b-D-chitobioside, EN06465 on page 125

4-Nitrophenyl 2-acetamido-2-deoxy-4,6-O-benzylidene-b-D-glucopyranoside[19234-58-3] C₂₁H₂₂N₂O₈ 430.41

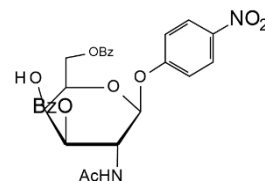
EN06447

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

**4-Nitrophenyl 2-acetamido-2-deoxy-3,6-di-O-benzoyl-b-D-galactopyranoside**[132498-72-7] C₂₈H₂₆N₂O₁₀ 550.51

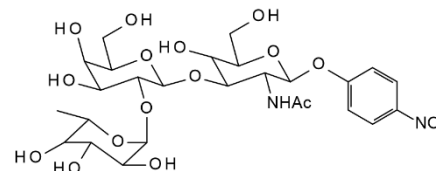
EN04929

10mg	\$105.00
25mg	\$184.00
50mg	\$315.00

**4-Nitrophenyl 2-acetamido-2-deoxy-3-O-[2-O-(a-L-fucopyranosyl)-b-D-galactopyranosyl]-b-D-glucopyranoside**[93496-53-8] C₂₆H₃₈N₂O₁₇ 650.58

EN06443

0.5mg	\$131.30
1mg	\$210.00
2mg	\$472.50

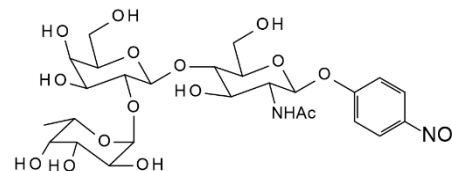
**4-Nitrophenyl 2-acetamido-2-deoxy-4-O-[2-O-(a-L-fucopyranosyl)-b-D-galactopyranosyl]-b-D-glucopyranoside**

• Fuc-a-1,2-Gal-b-1,4-GlcNAc-b-PNP

[177855-99-1] C₂₆H₃₈N₂O₁₇ 650.58

EN04931

0.5mg	\$195.00
1mg	\$360.00
2mg	\$690.00

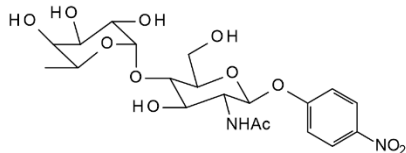


Nitrophenyla

4-Nitrophenyl 2-acetamido-2-deoxy-4-O-(α -L-fucopyranosyl)- β -D-glucopyranoside[259143-52-7] C₂₀H₂₈N₂O₁₂ 488.44

Price On Application

EN06442



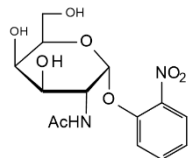
2-Nitrophenyl 2-acetamido-2-deoxy-a-D-galactopyranoside

- 2-Nitrophenyl N-acetyl-a-D-galactosamine
- ONP-a-GalNAc

[23646-67-5] C₁₄H₁₈N₂O₈ 342.3

EN05995

10mg	\$750.00
25mg	\$1050.00
50mg	\$1600.00



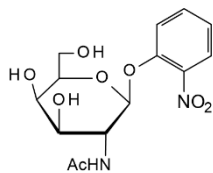
2-Nitrophenyl 2-acetamido-2-deoxy-b-D-galactopyranoside

- ONP-GalNAc

[152957-34-1] C₁₄H₁₈N₂O₈ 342.3

EN05078

5mg	\$63.00
10mg	\$84.00
25mg	\$100.00



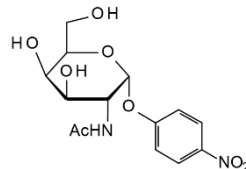
4-Nitrophenyl 2-acetamido-2-deoxy-a-D-galactopyranoside

- 4-Nitrophenyl-a-GalNAc
- 4-Nitrophenyl N-acetyl-a-D-galactosaminide
- GalNAc-a-PNP

[50645-66-4][23646-68-6] C₁₄H₁₈N₂O₈ 342.3

EN06659

2mg	\$60.00
5mg	\$125.00
10mg	\$210.00



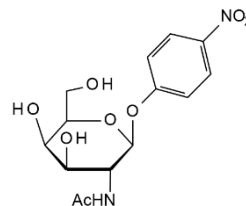
4-Nitrophenyl 2-acetamido-2-deoxy-b-D-galactopyranoside

- GalNAc-b-PNP
- 4-Nitrophenyl N-acetyl-b-D-galactosaminide
- 4-Nitrophenyl b-GalNAc

[14948-96-0] C₁₄H₁₈N₂O₈ 342.3

EN04917

250mg	\$55.00
500mg	\$95.00
1g	\$170.00



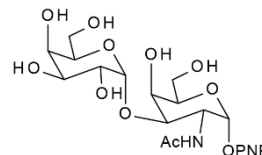
4-Nitrophenyl 2-acetamido-2-deoxy-3-O-(a-D-galactopyranosyl)-a-D-galactopyranoside

- 4-Nitrophenyl 2-acetyl-amino-2-deoxy-3-O-(a-D-galactopyranosyl)-a-D-galactopyranoside
- Gal1-a-3GalNAc-a-PNP

[1144040-14-1] C₂₀H₂₈N₂O₁₃ 504.44

EN16478

1mg	\$511.00
2mg	\$929.10
5mg	\$1689.20



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)

N

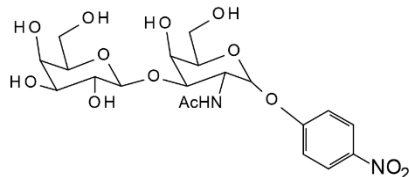
4-Nitrophenyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside

- Gal-b-1-3-GalNAc-a-PNP
- 4-Nitrophenyl galacto-N-bioside

[59837-14-8] C₂₀H₂₈N₂O₁₃ 504.44

EN04925

1mg	\$125.00
2mg	\$230.00
5mg	\$425.00



Refs: Medina M, et al, Cancer Res. 1999, 59, 1061-1070

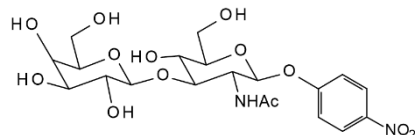
4-Nitrophenyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-glucopyranoside

- Gal-b-1-3-GlcNAc-b-PNP

[57467-13-7] C₂₀H₂₈N₂O₁₃ 504.44

EN06439

1mg	\$85.00
2mg	\$140.00
5mg	\$325.00



Refs: Chester MA, Watkins WM, Biochem. Biophys. Res. Commun. 1969, 34, 835; Watkins WM, Gottschalk A, Glycoproteins 1972, 830

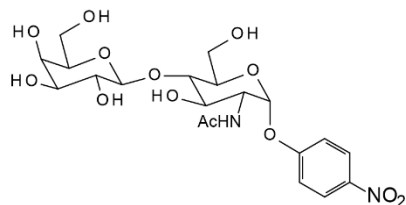
4-Nitrophenyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-a-D-glucopyranoside

- Gal-b-1,4-GlcNAc-a-PNP

[184377-56-8] C₂₀H₂₈N₂O₁₃ 504.44

EN04923

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

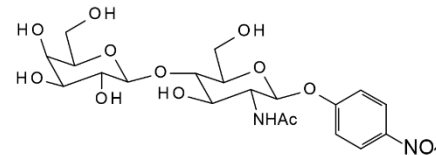
**4-Nitrophenyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside**

- p-NP N-acetyllactoside
- N-Acetyllactosamine-b-PNP

[74211-28-2] C₂₀H₂₈N₂O₁₃ 504.44

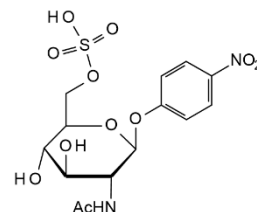
EN04915

1mg	\$99.80
2mg	\$157.50
5mg	\$294.00

**4-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside-6-sulfate potassium salt**[210418-06-7][80095-44-9] C₁₄H₁₇N₂O₁₁S·K 460.46

EN03294

10mg	\$85.00
25mg	\$150.00
50mg	\$250.00

**4-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside-6-sulfate sodium salt**[467446-91-9][80095-44-9] C₁₄H₁₇N₂O₁₁S·Na 444.35

EN75195

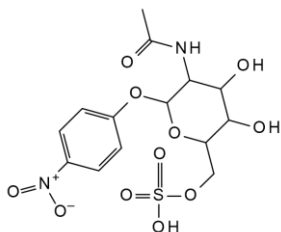
10mg	\$85.00
25mg	\$150.00
50mg	\$250.00



Nitrophenyla**4-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside-6-sulfate**

EN43871

Price On Application

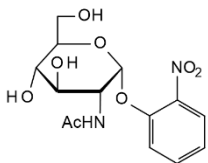
**o-Nitrophenyl 2-acetamido-2-deoxy-a-D-glucopyranoside triacetate**see *2-Nitrophenyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-a-D-glucopyranoside*, EN03207 on page 104**2-Nitrophenyl 2-acetamido-2-deoxy-a-D-glucopyranoside**

- ONP-a-D-GlcNAc
- 2-Nitrophenyl N-acetyl-a-D-glucosamine

[10139-01-2] C₁₄H₁₈N₂O₈ 342.3

EN03206

50mg	\$60.00
100mg	\$100.00
250mg	\$200.00

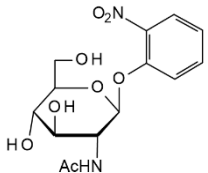
**2-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside**

- 2-Nitrophenyl N-acetyl-b-D-glucosamine
- o-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucoside
- CNP-b-D-GlcNAc

[13264-92-1] C₁₄H₁₈N₂O₈ 342.3

EN03254

500mg	\$145.00
1g	\$262.50
2g	\$441.00

**3-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside**

EN03257

Price On Application

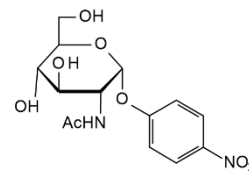
**4-Nitrophenyl 2-acetamido-2-deoxy-a-D-glucopyranoside**

- 4-Nitrophenyl N-acetyl-a-D-glucosamine

[10139-02-3] C₁₄H₁₈N₂O₈ 342.3

EN03208

25mg	\$50.00
50mg	\$90.00
100mg	\$160.00



Refs: Goldstein J, et al, J. Biol. Chem. 1987, 262, 4, 1596

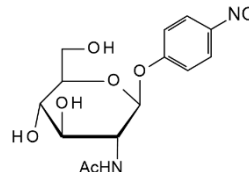
**4-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside**

- GlcNAc-b-PNP
- 4-Nitrophenyl N-acetyl-b-D-glucosamine

[3459-18-5] C₁₄H₁₈N₂O₈ 342.3

EN04911

500mg	\$65.00
1g	\$85.00
2g	\$150.00



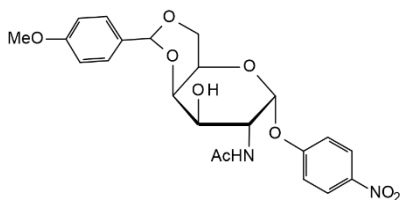
Refs: Muruhn D, Chim. Acta 1976, 73, 453

**o-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucoside**see *2-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside*, EN03254 on page 102

4-Nitrophenyl 2-acetamido-2-deoxy-4,6-O-p-methoxybenzylidene-a-D-galactopyranoside[59868-86-9] C₂₂H₂₄N₂O₉ 460.43

EN06446

5mg	\$99.80
10mg	\$157.50
25mg	\$262.50

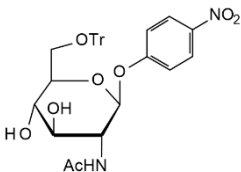
**o-Nitrophenyl 2-acetamido-2-deoxy-3,4,6-tri-O-acetyl-a-D-glucopyranoside**

see 2-Nitrophenyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-a-D-glucopyranoside, EN03207 on page 104

4-Nitrophenyl 2-acetamido-2-deoxy-6-O-trityl-b-D-glucopyranosideC₃₃H₃₂N₂O₈ 584.62

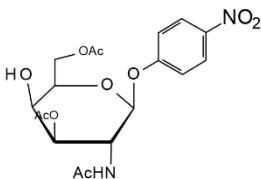
EN04779

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

**4-Nitrophenyl 2-acetamido-3,6-di-O-acetyl-2-deoxy-b-D-glucopyranoside**[61891-87-0] C₁₈H₂₂N₂O₁₀ 426.37

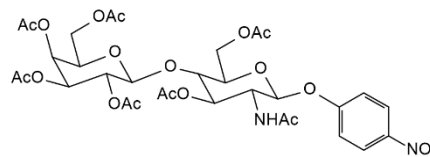
EN04921

100mg	\$100.00
250mg	\$172.50
500mg	\$265.00

**4-Nitrophenyl 2-acetamido-3,6-di-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-b-D-glucopyranoside**[85193-88-0] C₃₂H₄₀N₂O₁₉ 756.66

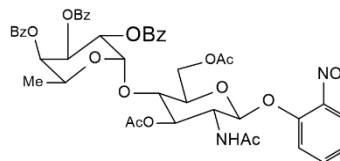
EN06441

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

**2-Nitrophenyl 2-acetamido-3,6-di-O-acetyl-4-O-[2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)]-2-deoxy-b-D-glucopyranoside**C₄₅H₄₄N₂O₁₇ 884.83

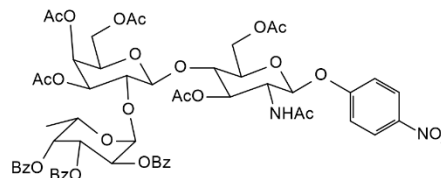
EN04919

1mg	\$89.30
2mg	\$157.50
5mg	\$294.00

**4-Nitrophenyl 2-acetamido-3,6-di-O-acetyl-4-O-[2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)-3,4,6-tri-O-acetyl-b-D-galactopyranosyl]-2-deoxy-b-D-glucopyranoside**C₅₇H₆₀N₂O₂₅ 1173.08

EN06822

0.5mg	\$157.50
1mg	\$294.00
2mg	\$546.00



Nitrophenyla

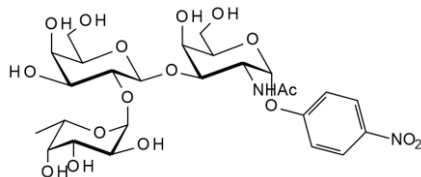
4-Nitrophenyl 2-acetamido-3-O-[2-O-a-L-fucopyranosyl-b-D-galactopyranosyl]-2-deoxy-a-D-galactopyranoside

• Fuca(1-2)Galb(1-3)GalNAc-a-pNP

[1105508-81-3] C₂₈H₃₈N₂O₁₇ 650.58

EN45633

Price On Application



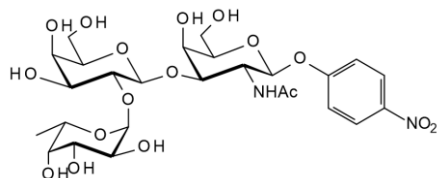
4-Nitrophenyl 2-acetamido-3-O-[2-O-a-L-fucopyranosyl-b-D-galactopyranosyl]-2-deoxy-b-D-galactopyranoside

• Fuca(1-2)Galb(1-3)GalNAc-b-pNP

C₂₈H₃₈N₂O₁₇ 650.58

EN45632

Price On Application

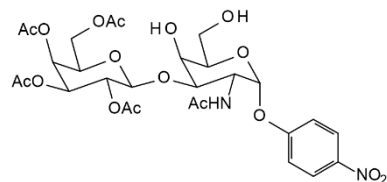


4-Nitrophenyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranoside

[57467-12-6] C₂₈H₃₆N₂O₁₇ 672.59

EN06440

1mg	\$89.30
2mg	\$157.50
5mg	\$262.50

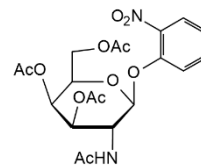


2-Nitrophenyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-galactopyranoside

C₂₀H₂₄N₂O₁₁ 468.41

EN06444

10mg	\$99.80
25mg	\$168.00
50mg	\$262.50



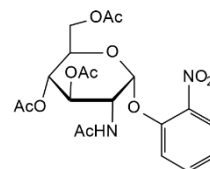
2-Nitrophenyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-a-D-glucopyranoside

- o-Nitrophenyl 2-acetamido-2-deoxy-a-D-glucopyranoside triacetate
- o-Nitrophenyl 2-acetamido-2-deoxy-3,4,6-tri-O-acetyl-a-D-glucopyranoside

[13264-91-0][210418-02-3] C₂₀H₂₄N₂O₁₁ 468.41

EN03207

25mg	\$89.50
50mg	\$157.50
100mg	\$263.00

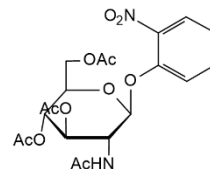


2-Nitrophenyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside

[13089-26-4] C₂₀H₂₄N₂O₁₁ 468.41

EN06607

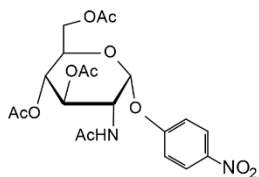
Price On Application



4-Nitrophenyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-a-D-glucopyranoside[13089-23-1] C₂₀H₂₄N₂O₁₁ 468.41

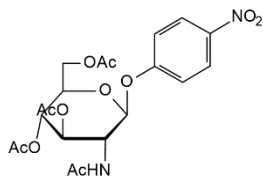
EN06131

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

**4-Nitrophenyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside**[13089-27-5] C₂₀H₂₄N₂O₁₁ 468.41

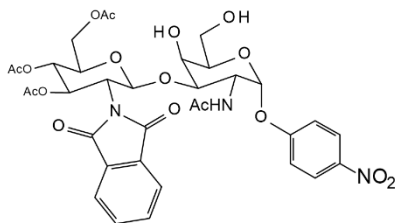
EN06606

250mg	\$92.50
500mg	\$160.00
1g	\$262.50

**4-Nitrophenyl 2-acetamido-3-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside**C₃₄H₃₇N₃O₁₇ 759.67

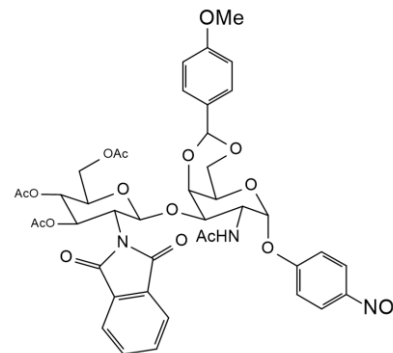
EN04781

2mg	\$99.80
5mg	\$173.30
10mg	\$126.00

**4-Nitrophenyl 2-acetamido-3-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-2-deoxy-4,6-O-4-methoxybenzylidene-a-D-galactopyranoside**C₄₂H₄₃N₃O₁₈ 877.8

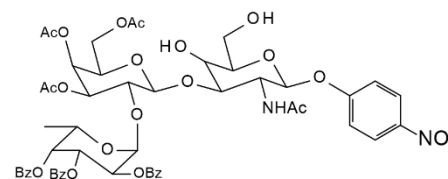
EN04780

1mg	\$89.30
2mg	\$141.80
5mg	\$246.80

**4-Nitrophenyl 2-acetamido-3-O-[2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)-3,4,6-tri-O-acetyl-2-deoxy-D-galactopyranosyl]-b-D-glucopyranoside**C₃₃H₅₆N₂O₂₃ 1089.01

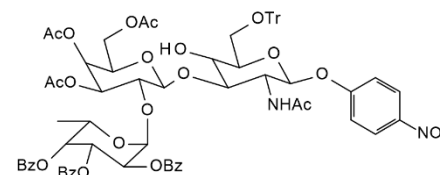
EN04913

0.5mg	\$110.30
1mg	\$199.50
5mg	\$724.50

**4-Nitrophenyl 2-acetamido-3-O-[2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)-3,4,6-tri-O-acetyl-D-galactopyranosyl]-2-deoxy-6-O-trityl-b-D-glucopyranoside**C₇₂H₇₀N₂O₂₃ 1331.33

EN06438

0.5mg	\$99.80
1mg	\$157.50
5mg	\$630.00

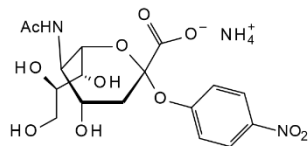


Nitrophenyla

4-Nitrophenyl 2-acetylamino-2-deoxy-3-O-(α -D-galactopyranosyl)- α -D-galactopyranosidesee *4-Nitrophenyl 2-acetamido-2-deoxy-3-O-(α -D-galactopyranosyl)- α -D-galactopyranoside*, EN16478 on page 100**2-O-(4-Nitrophenyl)- α -D-N-acetylneuraminic acid ammonium salt**• PNP-a-NeuNAc.NH₄[210418-02-3] C₁₇H₂₅N₃O₁₁ 447.39

EN03262

Price On Application

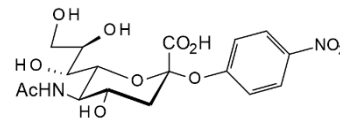
**2-O-(4-Nitrophenyl)- α -D-N-acetylneuraminic acid**

• PNP-a-NeuNAc

[26112-88-9] C₁₇H₂₂N₂O₁₁ 430.36

EN29246

1mg	\$180.00
2mg	\$320.00
5mg	\$700.00

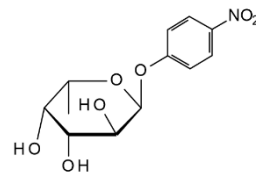
**4-Nitrophenyl α -L-fucopyranoside**

• PNP-a-L-Fuc

[10231-84-2] C₁₂H₁₅NO₇ 285.25

EN06434

250mg	\$75.00
500mg	\$100.00
1g	\$175.00

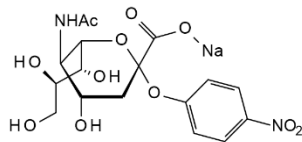
**2-O-(4-Nitrophenyl)- α -D-N-acetylneuraminic acid sodium salt**

• Neu5Ac-a-PNP.Na

[123549-14-4] C₁₇H₂₁N₂NaO₁₁ 452.35

EN07314

1mg	\$205.00
2mg	\$390.00
5mg	\$875.00

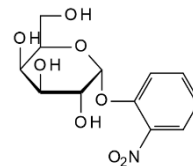
**2-Nitrophenyl α -D-galactopyranoside**

• ONP-a-Gal

[19887-85-5] C₁₂H₁₅NO₈ 301.25

EN31181

10mg	\$55.00
25mg	\$97.50
50mg	\$150.00

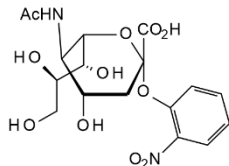
**2-O-(2-Nitrophenyl)- α -D-N-acetylneuraminic acid**

• ONP-a-NeuNAc

[157707-92-1] C₁₇H₂₂N₂O₁₁ 430.36

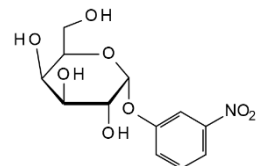
EN06467

0.5mg	\$94.50
1mg	\$136.50
2mg	\$262.50

**3-Nitrophenyl α -D-galactopyranoside**[52571-71-8] C₁₂H₁₅NO₈ 301.25

EN06881

10mg	\$60.00
50mg	\$200.00
100mg	\$350.00



N

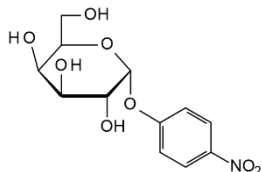
4-Nitrophenyl a-D-galactopyranoside

• PNP-a-Gal

[7493-95-0] C₁₂H₁₅NO₈ 301.25

EN03229

1g	\$40.00
2g	\$70.00
5g	\$145.00

**4-Nitrophenyl a-L-galactopyranoside**C₁₂H₁₅NO₈ 301.25

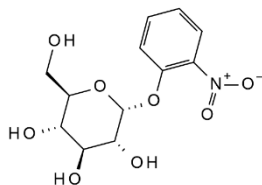
EN139165

Price On Application

**2-Nitrophenyl a-D-glucopyranoside**[56193-44-3] C₁₂H₁₅NO₈ 301.25

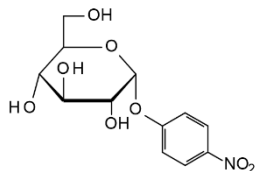
EN43851

5g	\$3125.00
10g	\$4950.00

**4-Nitrophenyl a-D-glucopyranoside**[3767-28-0] C₁₂H₁₅NO₈ 301.25

EN03227

2g	\$40.00
5g	\$75.00
10g	\$140.00



Refs: Halvorson H, Methods Enzymol. 1966, 8, 559-62

4-Nitrophenyl a-D-glucopyranosiduronic acid

see 4-Nitrophenyl a-D-glucuronide, EN16016 on page 107

4-Nitrophenyl a-D-glucuronide

• 4-Nitrophenyl a-D-glucopyranosiduronic acid

[71484-85-0] C₁₂H₁₃NO₉ 315.23

EN16016

10mg	\$170.00
25mg	\$275.00
50mg	\$475.00

**4-Nitrophenyl a-D-hexa-(1,4)-glucopyranoside**

see 4-Nitrophenyl a-D-maltohexaoside, EN06814 on page 107

4-Nitrophenyl a-kojibioside

see 4-Nitrophenyl 2-O-(a-D-glucopyranosyl)-a-D-glucopyranoside, EN04809 on page 121

4-Nitrophenyl a-D-laminaribioside

see 4-Nitrophenyl 3-O-(b-D-glucopyranosyl)-a-D-glucopyranoside, EN04815 on page 122

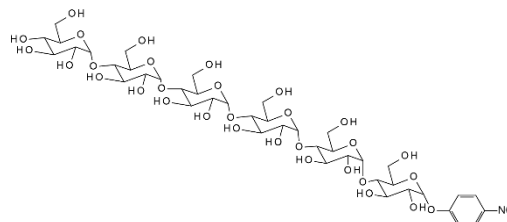
4-Nitrophenyl a-D-maltohexaoside

• 4-Nitrophenyl a-D-hexa-(1,4)-glucopyranoside

[74173-30-1] C₄₂H₆₅NO₃₃ 1111.95

EN06814

50mg	\$85.00
100mg	\$150.00
250mg	\$275.00



Refs: Lorentz K, J. Clin. Chem. Clin. Biochem. 1983, 21, 463

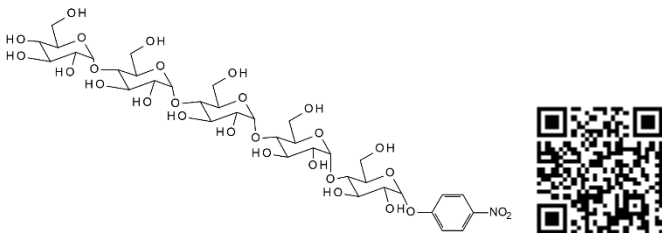
Nitrophenyla**4-Nitrophenyl a-D-maltopentaoside**

• PG5

[66068-38-0] C₃₆H₅₅NO₂₈ 949.81

EN05438

Price On Application



Refs: Lorentz K, J. Clin. Chem. Clin. Biochem. 1983, 21, 463; Wallenfels K, et al, Fresenius J. Anal. Chem. 1980, 301, 169

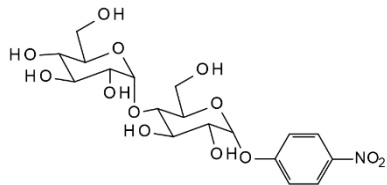
4-Nitrophenyl a-D-maltopyranoside

• PG2

[17400-77-0] C₁₈H₂₅NO₁₃ 463.39

EN06670

100mg	\$45.00
250mg	\$75.00
500mg	\$125.00

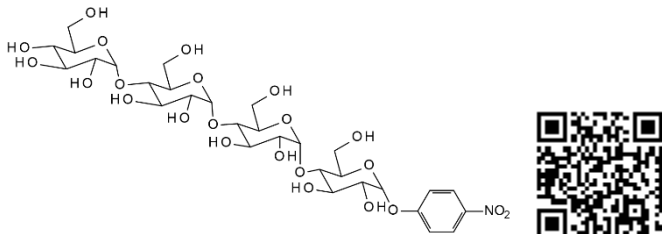
**4-Nitrophenyl a-D-maltotetraoside**

• PG4

[66068-37-9] C₃₀H₄₅NO₂₃ 787.67

EN05083

Price On Application

**4-Nitrophenyl a-D-mannopyranoside 2,3,4,6-tetraacetate**

see 4-Nitrophenyl 2,3,4,6-tri-O-acetyl-a-D-mannopyranoside, EN16817 on page 132

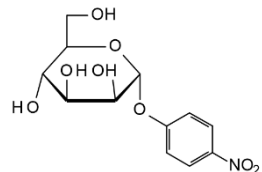
4-Nitrophenyl a-D-mannopyranoside

• Man-a-PNP

[10357-27-4] C₁₂H₁₅NO₈ 301.25

EN03183

1g	\$45.00
2g	\$80.00
5g	\$140.00

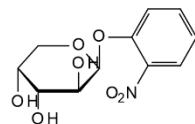
**4-Nitrophenyl a-nigeroside**

see 4-Nitrophenyl 3-O-(a-D-glucopyranosyl)-a-D-glucopyranoside, EN04813 on page 122

2-Nitrophenyl-b-D-arabinopyranosideC₁₁H₁₃NO₇ 271.22

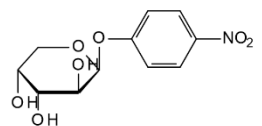
EN58459

Price On Application

**4-Nitrophenyl-b-D-arabinopyranoside**[78679-14-8] C₁₁H₁₃NO₇ 271.22

EN58460

Price On Application



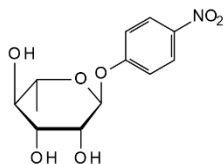
4-Nitrophenyl α -L-rhamnopyranoside

• PNP-Rhamnoside

[18918-31-5] C₁₂H₁₅NO₇ 285.25

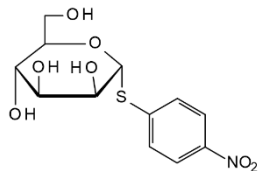
EN06877

50mg	\$40.00
100mg	\$75.00
250mg	\$125.00

**4-Nitrophenyl α -D-thiomannopyranoside**C₁₂H₁₅NO₇S 317.32

EN08839

Price On Application

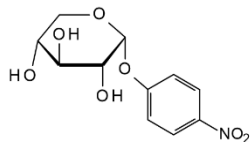
**4-Nitrophenyl α -D-xylopyranoside**

• PNP-a-Xyl

[10238-28-5] C₁₁H₁₃NO₇ 271.22

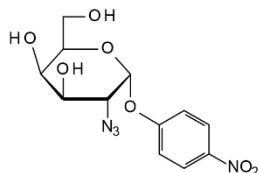
EN03233

100mg	\$50.00
250mg	\$95.00
500mg	\$150.00

**4-Nitrophenyl 2-azido-2-deoxy- α -D-galactopyranoside**[210418-04-5] C₁₂H₁₄N₄O₇ 326.26

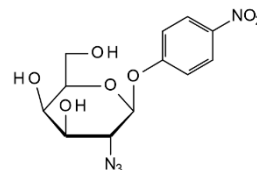
EN03241

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

**4-Nitrophenyl 2-azido-2-deoxy- β -D-galactopyranoside**C₁₂H₁₄N₄O₇ 326.26

EN03255

10mg	\$89.30
25mg	\$157.50
50mg	\$262.50

**4-Nitrophenyl β -L-arabinofuranoside**C₁₁H₁₃NO₇ 271.22

EN31820

250mg	\$1500.00
500mg	\$2200.00
1g	\$3000.00

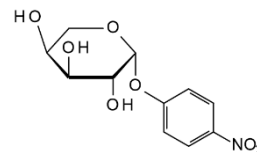
**4-Nitrophenyl β -L-arabinopyranoside**

• PNP-arabinoside

[72732-54-8] C₁₁H₁₃NO₇ 271.22

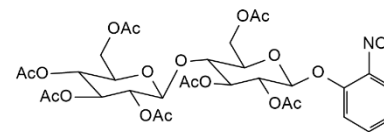
EN05253

100mg	\$48.00
250mg	\$80.00
500mg	\$135.00

**2-Nitrophenyl β -D-cellobioside heptaacetate**[70867-22-0] C₃₂H₃₈NO₂₀ 757.65

EN07318

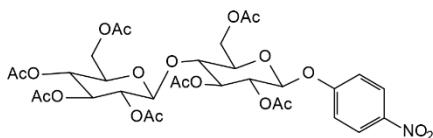
50mg	\$89.50
100mg	\$158.00
250mg	\$262.50



Nitrophenylb**4-Nitrophenyl b-D-cellobioside heptaacetate**C₃₂H₃₉NO₂₀ 757.65

EN07317

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

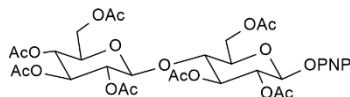
**4-Nitrophenyl b-D-cellobioside heptaacetate**

- 4-Nitrophenyl 4-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranoside 2,3,6-triacetate
- 4-Nitrophenyl 4-O-b-D-glucopyranosyl-b-D-glucopyranoside tetraacetate

[69948-03-4] C₃₂H₃₉NO₂₀ 757.65

EN16482

50mg	\$51.50
100mg	\$94.00
250mg	\$172.50

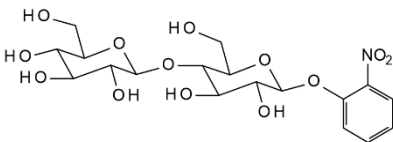
**2-Nitrophenyl b-D-cellobioside**

- ONP-cellobioside

[70867-33-3] C₁₈H₂₅NO₁₃ 463.39

EN03286

100mg	\$79.00
250mg	\$157.50
500mg	\$240.00

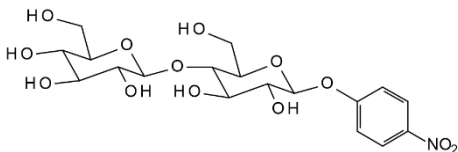
**4-Nitrophenyl b-D-cellobioside**

- PNP-cellobioside

[3482-57-3] C₁₈H₂₅NO₁₃ 463.39

EN04798

500mg	\$75.00
1g	\$125.00
2g	\$240.00

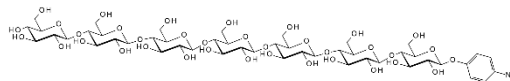


Refs: Eckert K, Zielinski F, Lo Leggio L, Schneider E, Appl. Microbiol. Biotechnol. 2002, Vol60, Pt4, p428-436

4-Nitrophenyl b-D-celloheptaoside[189095-24-7] C₄₈H₇₅NO₃₈ 1274.09

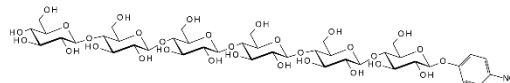
EN10193

Price On Application

**4-Nitrophenyl b-D-cellohexaoside**[189095-18-9] C₄₂H₆₅NO₃₃ 1111.95

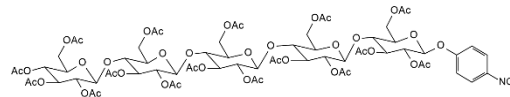
EN10194

Price On Application

**4-Nitrophenyl b-D-cellopentaoside hexadecaacetate**C₆₈H₈₇NO₄₄ 1622.4

EN07316

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

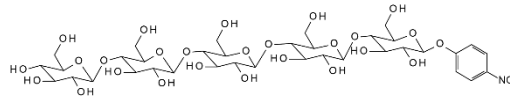
**4-Nitrophenyl b-D-cellopentaoside**

- pNP-cellopentaose

[129411-63-8] C₃₆H₅₅NO₂₈ 949.81

EN06431

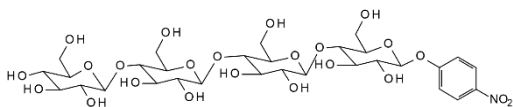
1mg	\$126.00
2mg	\$210.00
5mg	\$420.00



4-Nitrophenyl b-D-celotetraoside[129411-62-7] C₃₀H₄₅NO₂₃ 787.67

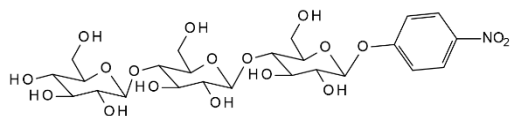
EN05261

0.5mg	\$89.30
1mg	\$126.00
2mg	\$210.00

**4-Nitrophenyl b-D-celotrioside**[106927-48-4] C₂₄H₃₅NO₁₈ 625.53

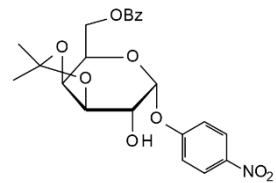
EN04796

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

**4-Nitrophenyl 6-O-benzoyl-3,4-O-isopropylidene-a-D-galactopyranoside**C₂₂H₂₃NO₉ 445.42

EN06461

25mg	\$89.50
50mg	\$157.50
100mg	\$263.00

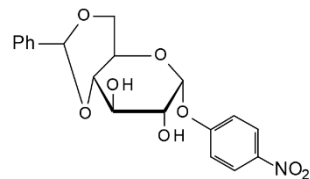


Refs: J. Carbohydr. Chem. 1992, 11(3), p397

4-Nitrophenyl 4,6-benzylidene-a-D-glucopyranoside[85906-27-0][260674-88-5] C₁₉H₁₉NO₈ 389.36

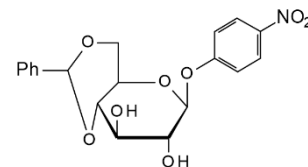
EN04787

500mg	\$105.00
1g	\$183.80
2g	\$357.00

**4-Nitrophenyl 4,6-O-benzylidene-b-D-glucopyranoside**[83167-73-1] C₁₉H₁₉NO₈ 389.36

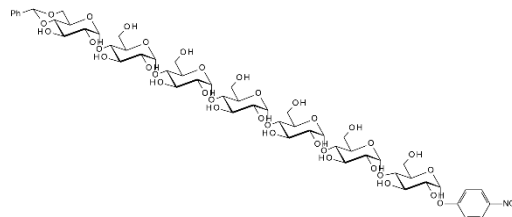
EN05359

500mg	\$80.00
1g	\$157.50
5g	\$315.00

**4-Nitrophenyl 4,6-benzylidene-a-D-maltoheptaoside**[109055-07-4] C₅₅H₇₉NO₃₈ 1362.2

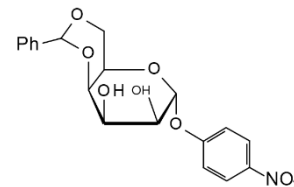
EN15305

100mg	\$84.00
250mg	\$157.50
500mg	\$265.00

**4-Nitrophenyl 4,6-O-benzylidene-a-D-mannopyranoside**[58056-41-0] C₁₉H₁₉NO₈ 389.36

EN02635

50mg	\$89.50
100mg	\$158.00
250mg	\$262.50



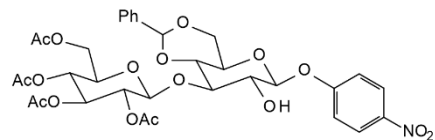
Nitrophenylb

4-Nitrophenyl 4,6-O-benzylidene-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranoside

C₃₃H₃₇NO₁₇ 719.64

EN06529

1mg	\$89.30
2mg	\$157.50
5mg	\$262.50

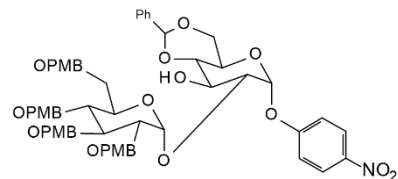


4-Nitrophenyl 4,6-benzylidene-2-O-(2,3,4,6-tetra-O-[4-methoxybenzyl]-a-D-glucopyranosyl)-a-D-glucopyranoside

C₅₇H₅₃NO₂₁ 1088.02

EN04828

0.5mg	\$115.50
1mg	\$178.50
2mg	\$294.00

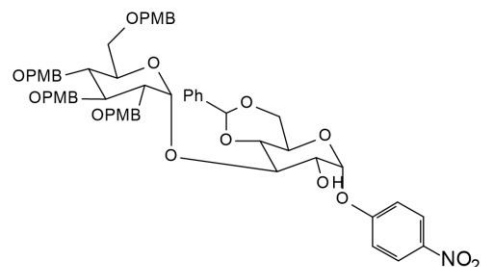


4-Nitrophenyl 4,6-benzylidene-3-O-(2,3,4,6-tetra-O-[4-methoxybenzyl]-a-D-glucopyranosyl)-a-D-glucopyranoside

C₅₇H₅₃NO₂₁ 1088.02

EN04840

0.5mg	\$94.50
1mg	\$157.50
2mg	\$336.00



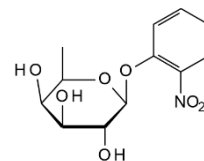
2-Nitrophenyl b-D-fucopyranoside

• ONP-b-D-Fuc

[1154-94-5] C₁₂H₁₅NO₇ 285.25

EN03289

50mg	\$95.00
100mg	\$170.00
250mg	\$300.00



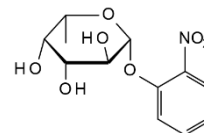
2-Nitrophenyl b-L-fucopyranoside

• ONP-b-L-Fuc

C₁₂H₁₅NO₇ 285.25

EN07168

5mg	\$105.00
10mg	\$189.00
25mg	\$394.00



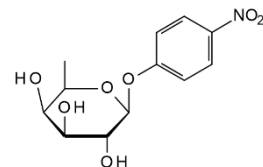
4-Nitrophenyl b-D-fucopyranoside

• PNP-b-D-Fuc

[1226-39-7] C₁₂H₁₅NO₇ 285.25

EN03274

250mg	\$65.00
500mg	\$110.00
1g	\$190.00



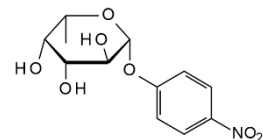
4-Nitrophenyl b-L-fucopyranoside

• PNP-b-L-Fuc

[22153-71-5] C₁₂H₁₅NO₇ 285.25

EN03228

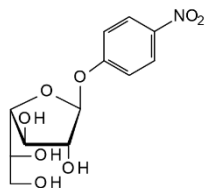
1g	\$69.00
2g	\$116.00
5g	\$235.00



4-Nitrophenyl b-D-galactofuranoside[100645-45-2] C₁₂H₁₅NO₈ 301.25

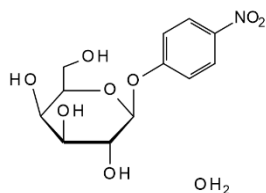
EN06054

10mg	\$65.00
25mg	\$115.00
50mg	\$175.00

**4-Nitrophenyl b-D-galactopyranoside hydrate**[200422-18-0] C₁₂H₁₅NO₈·H₂O 319.27

EN04981

1g	\$99.80
2g	\$126.00
5g	\$210.00

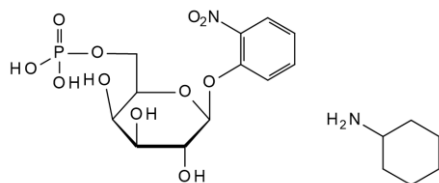
**2-Nitrophenyl b-D-galactopyranoside-6-phosphate cyclohexylammonium salt**

• o-Nitrophenyl b-D-galactopyranoside-6-phosphate cyclohexylammonium salt

[25405-62-3] C₁₂H₁₆NO₁₁P·C₆H₁₃N 480.4

EN04830

10mg	\$126.00
25mg	\$210.00
50mg	\$367.50



Refs: Hengstenberg W, et al, Proc. Natl. Acad. Sci. USA 1967, 58, 274

o-Nitrophenyl b-D-galactopyranoside-6-phosphate cyclohexylammonium salt

see 2-Nitrophenyl b-D-galactopyranoside-6-phosphate cyclohexylammonium salt, EN04830 on page 113

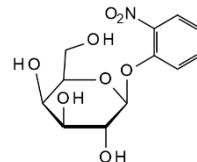
2-Nitrophenyl b-D-galactopyranoside

• ONPG

[369-07-3] C₁₂H₁₅NO₈ 301.25

EN06363

10g	\$38.00
25g	\$65.00
50g	\$85.00



Refs: Maruhn D, Clin. Chim. Acta 1976, 73, 453; Levvy GA, Conchie J, Methods Enzymol. 1966, 8, 571-84; Naider F, et al, Biochemistry 1972, 11, 3202-7

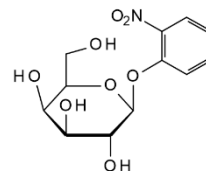
2-Nitrophenyl b-D-galactopyranoside - non-animal origin

• ONPG

[369-07-3] C₁₂H₁₅NO₈ 301.25

EN07012

25g	\$55.00
50g	\$85.00
100g	\$125.00

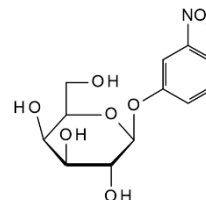


Refs: Maruhn D, Clin. Chim. Acta 1976, 73, 453; Levvy GA, Conchie J, Methods Enzymol. 1966, 8, 571-84; Naider F, et al, Biochemistry 1972, 11, 3202-7

3-Nitrophenyl b-D-galactopyranoside[3150-25-2] C₁₂H₁₅NO₈ 301.25

EN03268

25mg	\$58.75
50mg	\$94.00
100mg	\$151.00



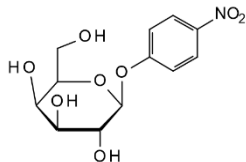
Nitrophenylb**4-Nitrophenyl b-D-galactopyranoside**

• PNPG

[3150-24-1] C₁₂H₁₅NO₈ 301.25

EN06672

2g	\$40.00
5g	\$75.00
10g	\$110.00



Refs: Coradin T, Livage J, Comptes Rendus Chimie 2003, No6, p147-152

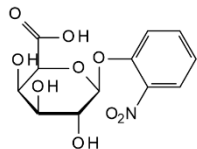
4-Nitrophenyl b-D-galactopyranosiduronic acid

• 4-Nitrophenyl b-D-galacturonide

[39031-76-0] C₁₂H₁₃NO₉ 315.23

EN31788

100mg	\$1000.00
250mg	\$1560.00
500mg	\$2340.00

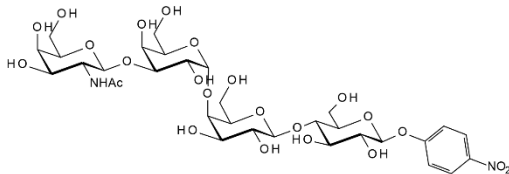
**4-Nitrophenyl b-D-galacturonide**see *4-Nitrophenyl b-D-galactopyranosiduronic acid*, EN31788 on page 114**4-Nitrophenyl b-GalNAc**see *4-Nitrophenyl 2-acetamido-2-deoxy-b-D-galactopyranoside*, EN04917 on page 100**4-Nitrophenyl b-globo-N-tetraoside**

• GalNAc-b-1,3-Gal-a-1,4-Gal-b-1,4-Glc-b-pNP

[1134635-03-2] C₃₂H₄₈N₂O₂₃ 828.72

EN44929

1mg	\$250.00
2mg	\$400.00
5mg	\$750.00

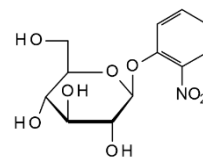
**2-Nitrophenyl b-D-glucopyranoside**

• ONP-glucoside

[2816-24-2] C₁₂H₁₅NO₈ 301.25

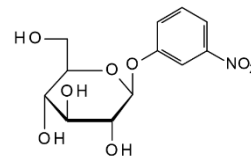
EN06435

1g	\$36.80
2g	\$52.50
5g	\$94.50

**3-Nitrophenyl b-D-glucopyranoside**[20838-44-2] C₁₂H₁₅NO₈ 301.25

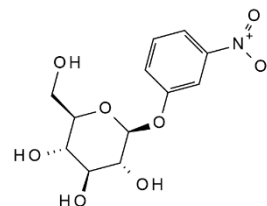
EN06883

1g	\$55.00
2g	\$76.00
5g	\$150.00

**3-Nitrophenyl b-D-glucopyranoside**

Price On Application

EN43855

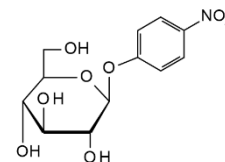
**4-Nitrophenyl b-D-glucopyranoside**

• PNP-glucoside

[2492-87-7] C₁₂H₁₅NO₈ 301.25

EN03181

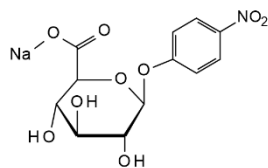
1g	\$45.00
2g	\$60.00
5g	\$95.00



4-Nitrophenyl b-D-glucuronide sodium salt[89772-41-8] C₁₂H₁₂NNaO₉ 337.21

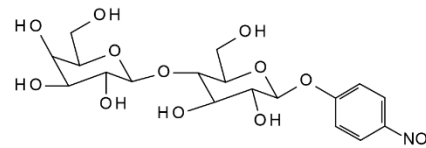
EN03273

1g	\$1428.00
2g	\$2520.00
5g	\$5775.00

**4-Nitrophenyl b-D-lactopyranoside**[4419-94-7] C₁₈H₂₅NO₁₃ 463.39

EN06436

50mg	\$70.00
100mg	\$100.00
250mg	\$175.00

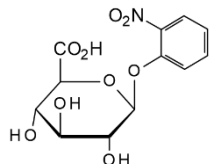
**2-Nitrophenyl b-D-glucuronide**

• ONP-GlcA

[137629-36-8] C₁₂H₁₃NO₉ 315.23

EN04827

50mg	\$103.00
100mg	\$195.00
250mg	\$460.00

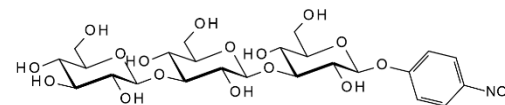
**4-Nitrophenyl b-D-laminaribioside**

see 4-Nitrophenyl 3-O-(b-D-glucopyranosyl)-b-D-glucopyranoside, EN04824 on page 122

4-Nitrophenyl b-laminaritrioside[106678-64-2] C₂₄H₃₅NO₁₈ 625.53

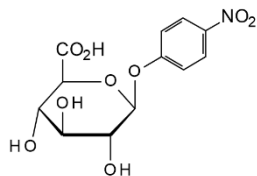
EN02422

Price On Application

**4-Nitrophenyl b-D-glucuronide**[10344-94-2] C₁₂H₁₃NO₉ 315.23

EN04823

500mg	\$45.00
1g	\$70.00
2g	\$120.00

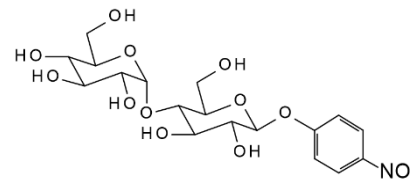


Refs: Brot FE, et al, Biochemistry 1978, 17, 385

4-Nitrophenyl b-D-maltopyranoside[56846-39-0] C₁₈H₂₅NO₁₃ 463.39

EN03295

100mg	\$50.00
250mg	\$75.00
500mg	\$125.00

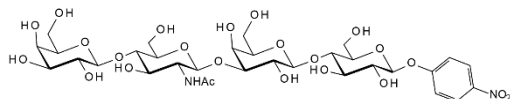
**4-Nitrophenyl b-lacto-N-neotetraoside**

• Gal-b-1,4-GlcNAc-b-1,3-Gal-b-1,4-Glc-b-pNP

[197526-33-3] C₃₂H₄₈N₂O₂₃ 828.72

EN44928

1mg	\$1500.00
2mg	\$2900.00
5mg	\$6975.00



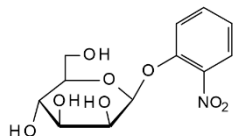
Nitrophenylb**2-Nitrophenyl b-D-mannopyranoside**

• ONP-mannoside

C₁₂H₁₅NO₈ 301.25

EN10094

Price On Application

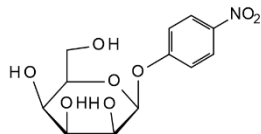
**4-Nitrophenyl b-D-mannopyranoside**

• PNP-mannoside

[35599-02-1] C₁₂H₁₅NO₈ 301.25

EN06437

50mg	\$65.00
100mg	\$110.00
250mg	\$195.00

**4-Nitrophenyl b-D-melibioside**see *4-Nitrophenyl 6-O-(a-D-glucopyranosyl)-b-D-glucopyranoside*, EN04811 on page 122**4-Nitrophenyl b-D-ribofuranoside**

• PNP-b-D-riboside

[59495-69-1] C₁₁H₁₃NO₇ 271.22

EN15993

50mg	\$79.00
100mg	\$126.00
250mg	\$237.50

**4-Nitrophenyl b-rutinoside**

EN46671

Price On Application

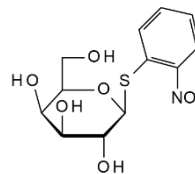
**4-Nitrophenyl b-sophoroside**see *4-Nitrophenyl 2-O-(b-D-glucopyranosyl)-b-D-glucopyranoside*, EN04825 on page 122**2-Nitrophenyl b-D-thiogalactopyranoside**

• ONP-1-thio-b-D-Gal

[1158-17-4] C₁₂H₁₅NO₇S 317.32

EN03315

100mg	\$60.00
250mg	\$87.50
500mg	\$140.00

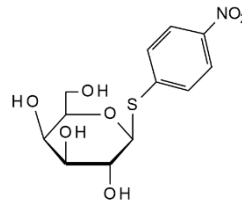
**4-Nitrophenyl b-D-thiogalactopyranoside**

• PNP-1-thio-b-D-Gal

[1230-27-9] C₁₂H₁₅NO₇S 317.32

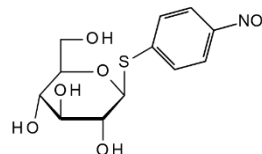
EN04995

50mg	\$95.00
100mg	\$175.00
250mg	\$295.00

**4-Nitrophenyl b-D-thioglucopyranoside**[2788-56-9] C₁₂H₁₅NO₇S 317.32

EN08840

25mg	\$79.00
50mg	\$131.50
100mg	\$205.00



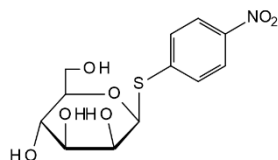
4-Nitrophenyl b-D-thiomannopyranoside

• PNP-1-thio-b-D-Man

[55385-51-8] C₁₂H₁₅NO₇S 317.32

EN06119

1mg	\$89.30
5mg	\$210.00
25mg	\$504.00



2-Nitrophenyl butyrate

[2487-26-5] C₁₀H₁₁NO₄ 209.2

EN15598

1g	\$40.00
2g	\$66.00
5g	\$130.00



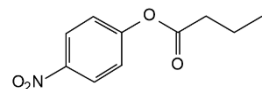
4-Nitrophenyl butyrate

• Butyric acid 4-nitrophenyl ester

[2635-84-9] C₁₀H₁₁NO₄ 209.2

EN15605

2g	\$50.00
5g	\$100.00
10g	\$150.00



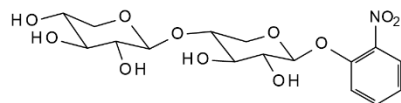
2-Nitrophenyl b-D-xylobioside

• ONP-xylobioside

[157956-98-4] C₁₆H₂₁NO₁₁ 403.34

EN06167

1mg	\$85.00
2mg	\$150.00
5mg	\$300.00



Refs: Biosci. Biotechnol. Biochem. 1996, 60(6), 983; Honda Y, Kitaoka M, Sakka K, Ohmiya K, Hayashi K, J. Biosci. Bioeng. 2002, Vol93, Pt3, p313-317

4-Nitrophenyl b-D-xylobioside

• PNP-xylobioside

[6819-07-4] C₁₆H₂₁NO₁₁ 403.34

EN15454

10mg	\$157.50
25mg	\$341.50
50mg	\$604.00



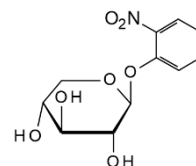
2-Nitrophenyl b-D-xylopyranoside

• ONP-Xyl

[10238-27-4] C₁₁H₁₃NO₇ 271.22

EN05295

100mg	\$40.00
250mg	\$80.00
500mg	\$105.00



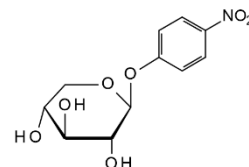
4-Nitrophenyl b-D-xylopyranoside

• PNP-b-D-Xyl

[2001-96-9] C₁₁H₁₃NO₇ 271.22

EN03230

500mg	\$60.00
1g	\$90.00
2g	\$150.00

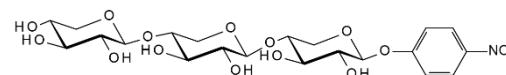


4-Nitrophenyl b-D-xylotrioside

[173468-29-6] C₂₁H₂₉NO₁₅ 535.45

EN44935

2mg	\$110.00
5mg	\$200.00
10mg	\$320.00



Nitrophenylc

2-Nitrophenyl caprylate

- 2-Nitrophenyl octanoate
- ONP-caprylate

[104809-25-8] C₁₄H₁₉NO₄ 265.31

EN15363	5g	\$250.00
	10g	\$400.00
	25g	\$875.00



4-Nitrophenyl caprylate

- 4-Nitrophenyl octanoate
- PNP-caprylate

[1956-10-1] C₁₄H₁₉NO₄ 265.31

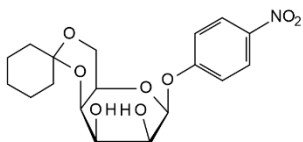
EN15366	1g	\$52.50
	2g	\$73.50
	5g	\$131.30



4-Nitrophenyl 4,6-cyclohexylidene-β-D-mannopyranoside

[102717-16-8] C₁₈H₂₃NO₈ 381.38

EN03277	50mg	\$110.00
	100mg	\$195.00
	250mg	\$425.00



4-Nitrophenyl decanoate

- Decanoic acid 4-nitrophenyl ester

[1956-09-8] C₁₆H₂₃NO₄ 293.36

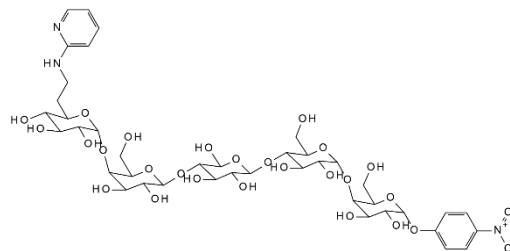
EN29174	100mg	\$85.00
	250mg	\$162.50
	500mg	\$275.00



4-Nitrophenyl 6'-deoxy-6'-(2-pyridylamino)-α-D-penta-(1-4)-glucopyranoside

[100111-14-6] C₄₁H₅₉N₃O₂₇ 1025.91

EN04962	1mg	\$525.00
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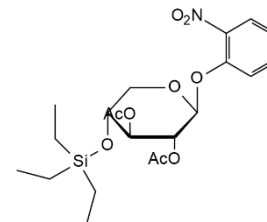
1-(4-Nitrophenyl)-N,N'-diacetyl-3,6,3',6'-penta-O-acetylchitobioside

see 4-Nitrophenyl 2-acetamido-4-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-β-D-glucopyranosyl)-3,6-di-O-acetyl-2-deoxy-β-D-glucopyranoside, EN06466 on page 98

2-Nitrophenyl 2,3-di-O-acetyl-4-O-triethylsilyl-β-D-xylopyranoside

[162088-90-6] C₂₁H₃₁NO₉Si 469.56

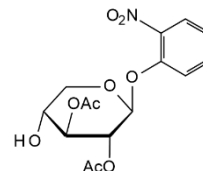
EN04797	2mg	\$89.30
	5mg	\$157.50
	10mg	\$262.50



2-Nitrophenyl 2,3-di-O-acetyl-β-D-xylopyranoside

[162088-91-7] C₁₅H₁₇NO₉ 355.3

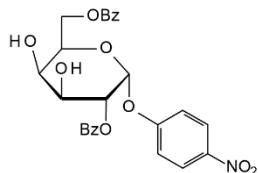
EN06455	2mg	\$89.30
	5mg	\$157.50
	10mg	\$262.50



4-Nitrophenyl 2,6-di-O-benzoyl-a-D-galactopyranoside[135216-30-7] C₂₆H₂₃NO₁₀ 509.46

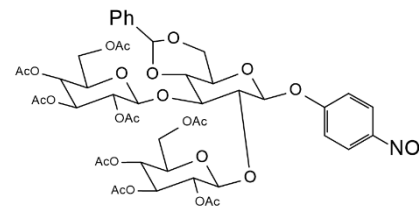
EN03282

10mg	\$89.30
25mg	\$157.50
50mg	\$262.50

**4-Nitrophenyl 2,3-di-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-4,6-benzylidene-b-D-glucopyranoside**C₄₇H₅₅NO₂₆ 1049.93

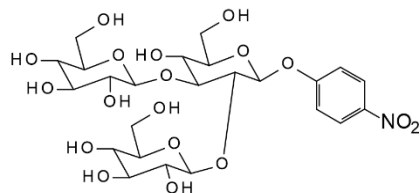
EN04786

1mg	\$115.50
2mg	\$199.50
5mg	\$367.50

**4-Nitrophenyl 2,3-di-O-(b-D-glucopyranosyl)-b-D-glucopyranoside**C₂₄H₃₅NO₁₈ 625.53

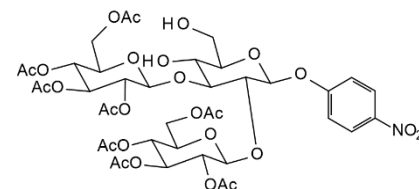
EN04843

0.5mg	\$131.30
1mg	\$210.00
2mg	\$378.00

**4-Nitrophenyl 2,3-di-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranoside**C₄₀H₅₁NO₂₆ 961.82

EN06520

1mg	\$210.00
5mg	\$945.00
10mg	\$1470.00

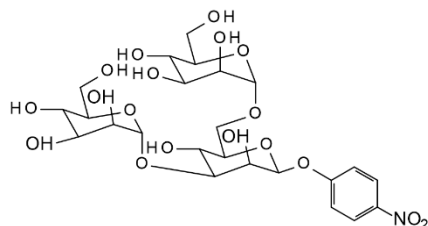
**4-Nitrophenyl 3,6-di-O-(a-D-mannopyranosyl)-b-D-mannopyranoside**

• Man-a-1-6[Man-a-1-3]Man-b-PNP

C₂₄H₃₅NO₁₈ 625.53

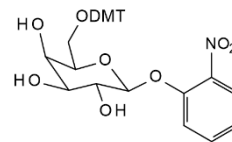
EN00854

0.25mg	\$262.50
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**2-Nitrophenyl 6-O-DMT-b-D-galactopyranoside**C₃₃H₃₃NO₁₀ 603.62

EN07315

50mg	\$89.50
100mg	\$168.00
250mg	\$262.50

**2,2'-bis(4-Nitrophenyl)-5,5'-diphenyl-3,3'-(3,3'-dimethoxy-4,4'-diphenylene)ditetrazolium chloride**

see Nitroblue tetrazolium chloride, EN13587 on page 96

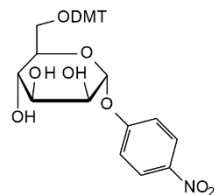
NitrophenylID

4-Nitrophenyl 6-O-DMT-a-D-mannopyranoside

C₃₃H₃₃NO₁₀ 603.62

EN05444

10mg	\$89.30
25mg	\$157.50
50mg	\$262.50

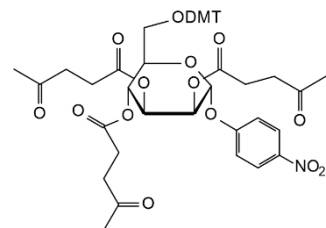


4-Nitrophenyl 6-O-DMT-2,3,4-tri-O-levulinoyl-a-D-mannopyranoside

C₄₈H₅₁NO₁₆ 897.92

EN06459

10mg	\$89.30
25mg	\$157.50
50mg	\$262.50



2-Nitrophenyl dodecanoate

see 2-Nitrophenyl laurate, EN15506 on page 123

4-Nitrophenyl dodecanoate

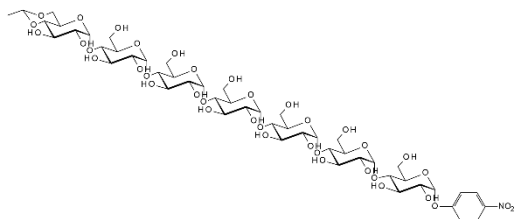
see 4-Nitrophenyl laurate, EN15367 on page 124

4-Nitrophenyl 4,6-ethylidene-a-D-maltoheptaoside

[96597-16-9] C₅₀H₇₇NO₃₈ 1300.13

EN45922

1g	\$250.00
2g	\$450.00
5g	\$825.00

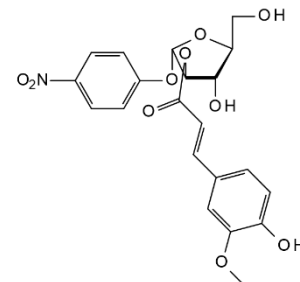


4-Nitrophenyl 2-O-trans-feruloyl-a-L-arabinofuranoside

[508220-80-2] C₂₁H₂₁NO₁₀ 447.39

EN16252

1mg	\$68.30
2mg	\$105.00
5mg	\$168.00

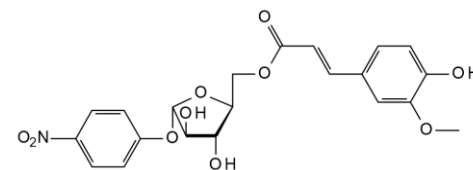


4-Nitrophenyl 5-O-trans-feruloyl-a-L-arabinofuranoside

[943833-83-8] C₂₁H₂₁NO₁₀ 447.4

EN03543

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



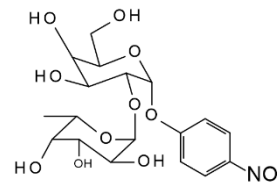
4-Nitrophenyl 2-O-(a-L-fucopyranosyl)-a-D-galactopyranoside

• Fuc-a-1-2-Gal-a-PNP

[383417-46-7] C₁₈H₂₅NO₁₂ 447.39

EN06127

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



Refs: J. Carbohydr. Chem. 1992, 11(3), 397



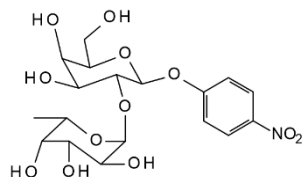
4-Nitrophenyl 2-O-(α -L-fucopyranosyl)-b-D-galactopyranoside

• Fuc-a-1-2-Gal-b-PNP

[66347-27-1] C₁₈H₂₅NO₁₂ 447.39

EN06600

500ug	\$160.00
1mg	\$262.50
2mg	\$472.50



Refs: DiCioccio RA, et al, Anal. Biochem. 1981, 11, 176

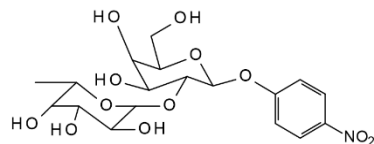
4-Nitrophenyl 2-O-(β -L-fucopyranosyl)-b-D-galactopyranoside

• Fuc-b-1-2-Gal-b-PNP

[77640-21-2] C₁₈H₂₅NO₁₂ 447.39

EN04839

0.5mg	\$120.00
1mg	\$205.00
2mg	\$370.00



Refs: DiCioccio RA, et al, Anal. Biochem. 1981, 11, 176

4-Nitrophenyl galacto-N-biosidesee 4-Nitrophenyl 2-acetamido-2-deoxy-3-O-(β -D-galactopyranosyl)- α -D-galactopyranoside, EN04925 on page 101**4-Nitrophenyl 6-O-(β -D-galactopyranosyl)-b-D-galactopyranoside**

[80321-98-8]

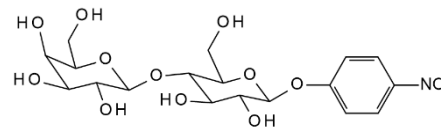
EN137385

Price On Application

**4-Nitrophenyl 4-O-(β -D-galactopyranosyl)-b-D-glucopyranoside**C₁₈H₂₅NO₁₃ 463.4

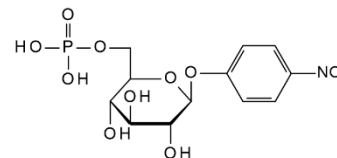
EN09512

Price On Application

**4-Nitrophenyl 6-O- α -D-galactopyranosyl-b-D-glucopyranoside**see 4-Nitrophenyl 6-O-(α -D-glucopyranosyl)-b-D-glucopyranoside, EN04811 on page 122**4-Nitrophenyl- α -GalNAc**see 4-Nitrophenyl 2-acetamido-2-deoxy- α -D-galactopyranoside, EN06659 on page 100**4-Nitrophenyl-b-D-glucopyranoside-6-phosphate**[55196-70-8] C₁₂H₁₆NO₁₁P 381.23

EN32426

100mg	\$5600.00
250mg	\$9750.00

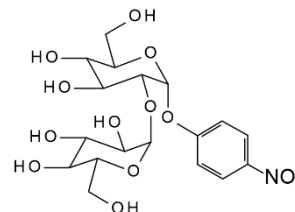
**4-Nitrophenyl 4-O- β -D-glucopyranosyl-b-D-glucopyranoside tetraacetate**

see 4-Nitrophenyl b-D-cellobioside heptacetate, EN16482 on page 110

4-Nitrophenyl 2-O-(α -D-glucopyranosyl)- α -D-glucopyranoside• 4-Nitrophenyl α -kajibioside[147103-31-9] C₁₈H₂₅NO₁₃ 463.39

EN04809

0.5mg	\$262.50
1mg	\$420.00
2mg	\$798.00



Nitrophenylg

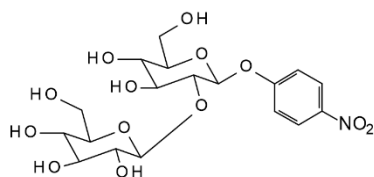
4-Nitrophenyl 2-O-(b-D-glucopyranosyl)-b-D-glucopyranoside

• 4-Nitrophenyl b-sophoroside

[16790-33-3] C₁₈H₂₅NO₁₃ 463.39

EN04825

0.5mg	\$126.00
1mg	\$210.00
2mg	\$315.00



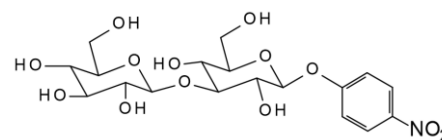
4-Nitrophenyl 3-O-(b-D-glucopyranosyl)-b-D-glucopyranoside

• 4-Nitrophenyl b-D-laminaribioside

[26255-70-9] C₁₈H₂₅NO₁₃ 463.39

EN04824

1mg	\$110.00
2mg	\$190.00
5mg	\$375.00

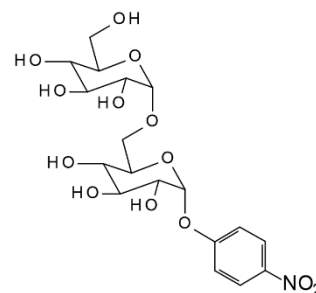


4-Nitrophenyl 6-O-(a-D-glucopyranosyl)-a-D-glucopyranoside

[136734-56-0] C₁₈H₂₅NO₁₃ 463.39

EN04846

0.5mg	\$126.00
1mg	\$210.00
2mg	\$378.00



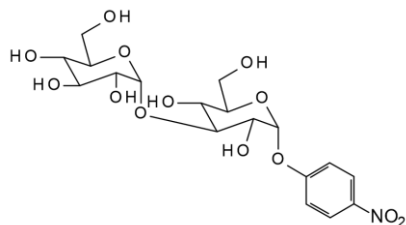
4-Nitrophenyl 3-O-(a-D-glucopyranosyl)-a-D-glucopyranoside

• 4-Nitrophenyl a-nigeroside

[136632-95-6] C₁₈H₂₅NO₁₃ 463.39

EN04813

1mg	\$55.00
2mg	\$84.00
5mg	\$157.50



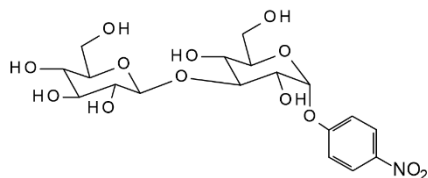
4-Nitrophenyl 3-O-(b-D-glucopyranosyl)-a-D-glucopyranoside

• 4-Nitrophenyl a-D-laminaribioside

C₁₈H₂₅NO₁₃ 463.39

EN04815

1mg	\$210.00
2mg	\$315.00
5mg	\$630.00



4-Nitrophenyl 6-O-(a-D-glucopyranosyl)-b-D-glucopyranoside

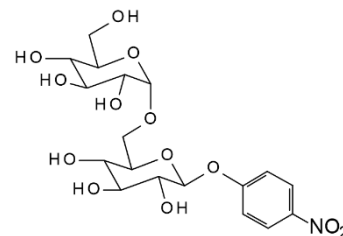
• 4-Nitrophenyl b-D-melibioside

• 4-Nitrophenyl 6-O-a-D-galactopyranosyl-b-D-glucopyranoside

[335193-88-9][104872-92-6] C₁₈H₂₅NO₁₃ 463.39

EN04811

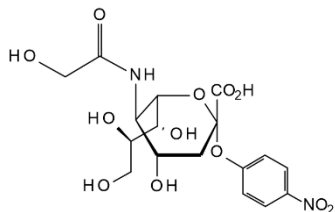
1mg	\$57.80
2mg	\$94.50
5mg	\$157.50



2-O-(4-Nitrophenyl)-a-D-N-glycolylneuraminic acid[1000890-36-7] C₁₇H₂₂N₂O₁₂ 446.36

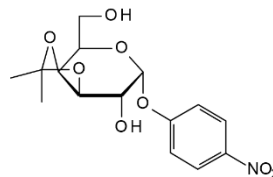
EN03275

1mg	\$210.00
2mg	\$370.00
5mg	\$825.00

**4-Nitrophenyl 3,4-O-isopropylidene-a-D-galactopyranoside**[29781-32-6] C₁₅H₁₉NO₈ 341.31

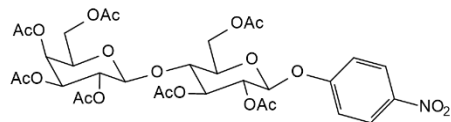
EN09917

100mg	\$105.00
250mg	\$197.50
500mg	\$370.00

**4-Nitrophenyl hepta-O-acetyl-b-lactoside**[84034-75-3] C₃₂H₃₉NO₂₀ 757.65

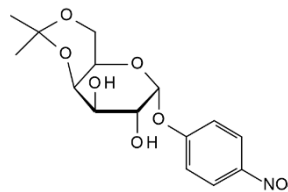
EN04998

1mg	\$60.00
2mg	\$94.50
5mg	\$157.50

**4-Nitrophenyl 4,6-O-isopropylidene-a-D-galactopyranoside**[29781-31-5] C₁₅H₁₉NO₈ 341.31

EN09918

100mg	\$105.00
250mg	\$197.50
500mg	\$370.00

**4-Nitrophenyl hepta-O-acetyl-b-thiolactoside**

see 4-Nitrophenyl 4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2,3,6-tri-O-acetyl-b-D-thioglucopyranoside, EN04992 on page 128

4-Nitrophenyl hexadecanoate

see 4-Nitrophenyl palmitate, EN15588 on page 126

2-Nitrophenyl hexyl ether[67285-54-5] C₁₂H₁₇NO₃ 223.27

EN57705

Price On Application

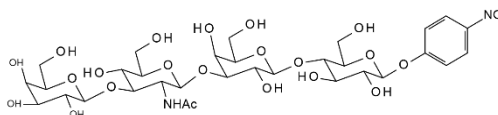
**4-Nitrophenyl lacto-N-tetraoside**

- LNT-pNP
- Gal-b-1,3-GlcNAc-b-1,3-Gal-b-1,4-Glc-b-pNP

[148705-09-3] C₃₂H₄₈N₂O₂₃ 828.72

EN44927

1mg	\$250.00
2mg	\$450.00
5mg	\$1000.00

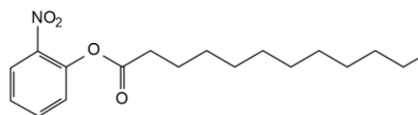
**2-Nitrophenyl laurate**

- 2-Nitrophenyl dodecanoate

[2639-52-3] C₁₈H₂₇NO₄ 321.41

EN15506

5g	\$250.00
10g	\$400.00
25g	\$875.00



Nitrophenyll

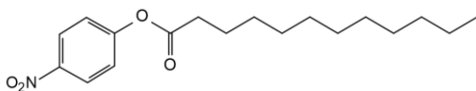
4-Nitrophenyl laurate

• 4-Nitrophenyl dodecanoate

[1956-11-2] C₁₈H₂₇NO₄ 321.41

EN15367

10g	\$52.50
25g	\$100.00
50g	\$157.50



4-Nitrophenyl-D-maltopentaoside

EN146310

Price On Application

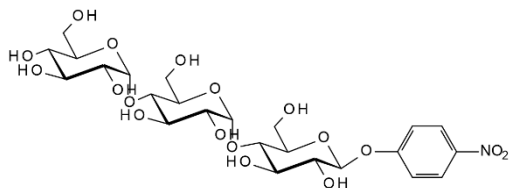


4-Nitrophenyl-b-D-maltotrioside

[56808-39-0] C₂₄H₃₅NO₁₈ 625.53

EN36499

10mg	\$75.00
25mg	\$125.00
50mg	\$195.00

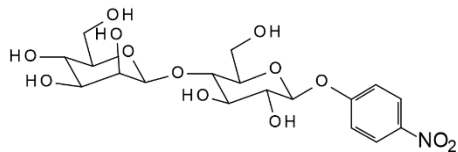


4-Nitrophenyl 4-O-(b-D-mannopyranosyl)-b-D-glucopyranoside

C₁₈H₂₅NO₁₃ 463.39

EN04804

0.5mg	\$99.80
1mg	\$189.00
2mg	\$315.00

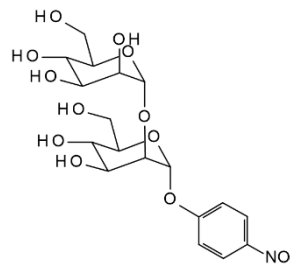


4-Nitrophenyl 2-O-(a-D-mannopyranosyl)-a-D-mannopyranoside

[68462-57-7] C₁₈H₂₅NO₁₃ 463.39

EN06460

0.5mg	\$111.00
1mg	\$185.00
2mg	\$351.00



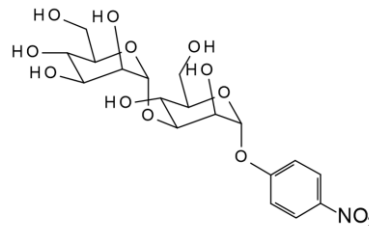
4-Nitrophenyl 3-O-(a-D-mannopyranosyl)-a-D-mannopyranoside

• Man-a-1-3-Man-a-PNP

[93979-06-7] C₁₈H₂₅NO₁₃ 463.39

EN04837

1mg	\$42.00
2mg	\$73.50
5mg	\$131.30



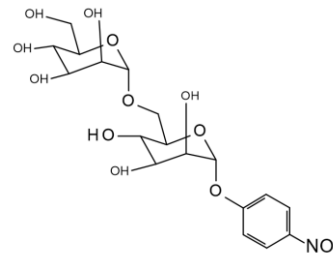
4-Nitrophenyl 6-O-(a-D-mannopyranosyl)-a-D-mannopyranoside

• Man-a-1-6-Man-a-PNP

[72647-96-2] C₁₈H₂₅NO₁₃ 463.39

EN06126

1mg	\$94.50
2mg	\$147.00
5mg	\$315.00

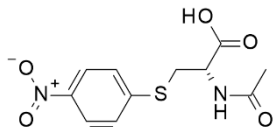


S-(4-Nitrophenyl)mercapturic acid

- N-Acetyl-S-(4-nitrophenyl)-L-cysteine
- N-Acetyl-3-[(p-nitrophenyl)thio]alanine

[91088-55-0] C₁₁H₁₂N₂O₅S 284.29

EN26334	10mg	\$50.00
	25mg	\$85.00
	50mg	\$115.00



Refs: van Sittert, N.J. et al. Br. J. Med. 50, 460 (1993); Boogaard, P.J. and van Sittert, H.J. Occup. Environ. Med. 52, 611 (1995)

(4-Nitrophenyl)methyl-b-D-glucopyranoside[700368-52-1] C₁₃H₁₇NO₈ 315.28

Price On Application

EN141820

**4-Nitrophenyl myristate**

- 4-Nitrophenyl tetradecanoate

[14617-85-7] C₂₀H₃₁NO₄ 349.46

EN15364	2g	\$50.00
	5g	\$90.00
	10g	\$150.00

**2-Nitrophenyl N-acetyl-a-D-galactosamine**

see 2-Nitrophenyl 2-acetamido-2-deoxy-a-D-galactopyranoside, EN05995 on page 100

4-Nitrophenyl N-acetyl-a-D-galactosaminide

see 4-Nitrophenyl 2-acetamido-2-deoxy-a-D-galactopyranoside, EN06659 on page 100

4-Nitrophenyl N-acetyl-b-D-galactosaminide

see 4-Nitrophenyl 2-acetamido-2-deoxy-b-D-galactopyranoside, EN04917 on page 100

2-Nitrophenyl N-acetyl-a-D-glucosamine

see 2-Nitrophenyl 2-acetamido-2-deoxy-a-D-glucopyranoside, EN03206 on page 102

2-Nitrophenyl N-acetyl-b-D-glucosamine

see 2-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside, EN03254 on page 102

4-Nitrophenyl N-acetyl-a-D-glucosamine

see 4-Nitrophenyl 2-acetamido-2-deoxy-a-D-glucopyranoside, EN03208 on page 102

4-Nitrophenyl N-acetyl-b-D-glucosamine

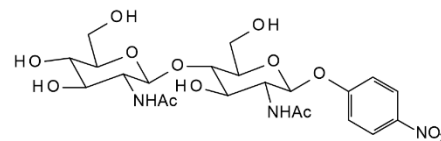
see 4-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside, EN04911 on page 102

4-Nitrophenyl N,N'-diacetyl-b-D-chitobioside

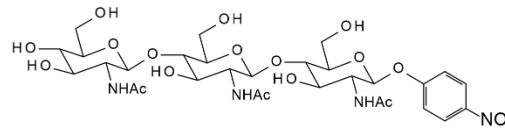
- 4-Nitrophenyl 2-acetamido-2-deoxy-(4-O-2-acetamido-2-deoxy-b-D-glucopyranosyl)-b-D-glucopyranoside

[7284-16-4] C₂₂H₃₁N₃O₁₃ 545.49

EN06465	1mg	\$89.30
	2mg	\$157.50
	5mg	\$262.50

**4-Nitrophenyl N,N',N''-triacetyl-b-D-chitotriose**[7699-38-9] C₃₀H₄₄N₄O₁₈ 748.69

EN05203	1mg	\$190.00
	2mg	\$350.00
	5mg	\$750.00



Refs: Osawa T, Nakazawa Y, Biochim. Biophys. Acta 1966, 130, 56

NitrophenylO

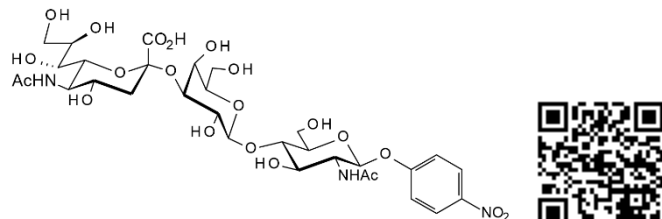
4-Nitrophenyl O-(N-acetyl-a-neuraminosyl)-(2-3)-b-D-galactopyranosyl-(1-4)-2-acetamido-2-deoxy-b-D-glucopyranoside

• Neu5Aca(2-3)Galb(1-4)GlcNAc-b-pNP

[501427-92-5] C₃₁H₄₅N₃O₂₁ 795.7

EN46140 1mg \$750.00

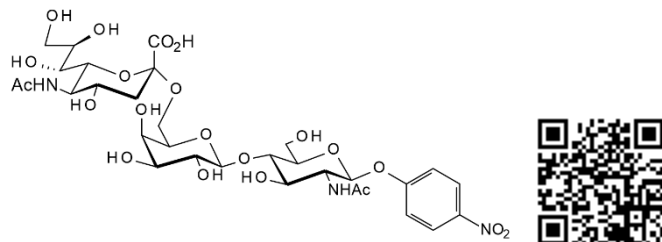
2mg \$1010.00

**4-Nitrophenyl O-(N-acetyl-a-neuraminosyl)-(2-6)-b-D-galactopyranosyl-(1-4)-2-acetamido-2-deoxy-b-D-glucopyranoside**

• Neu5Aca(2-6)Galb(1-3)GlcNAc-b-pNP

[501427-93-6] C₃₁H₄₅N₃O₂₁ 795.7

EN46141 1mg \$830.00

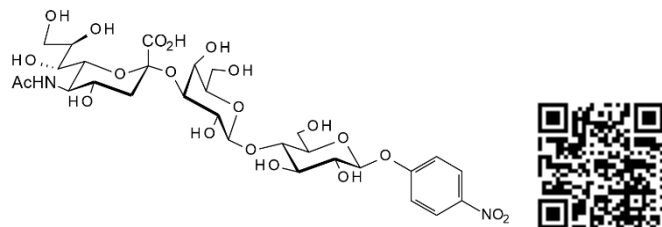
**4-Nitrophenyl O-(N-acetyl-a-neuraminosyl)-(2-3)-b-D-galactopyranosyl-(1-4)-b-D-glucopyranoside**

• Neu5Aca(2-3)Galb(1-4)Glc-b-pNP

[1611491-05-4] C₂₉H₄₂N₂O₂₁ 754.64

EN46142 1mg \$795.00

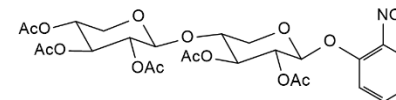
2mg \$1050.00

**2-Nitrophenyl octanoate**

see 2-Nitrophenyl caprylate, EN15363 on page 118

4-Nitrophenyl octanoate

see 4-Nitrophenyl caprylate, EN15366 on page 118

4-Nitrophenyl palmitate• 4-Nitrophenyl hexadecanoate
• Palmitic acid 4-nitrophenyl ester[1492-30-4] C₂₂H₃₅NO₄ 377.52EN15588 5g \$60.00
10g \$90.00
25g \$175.00**2-Nitrophenyl 2,2',3,3',4'-penta-O-acetyl-b-D-xylobioside**[162088-92-8] C₂₈H₃₁NO₁₆ 613.52EN06793 1mg \$94.50
2mg \$157.50
5mg \$262.50**4-Nitrophenyl phosphate bis(cyclohexylammonium) salt**

[52483-84-8]

EN13741 5g \$60.00
10g \$102.00
25g \$165.00

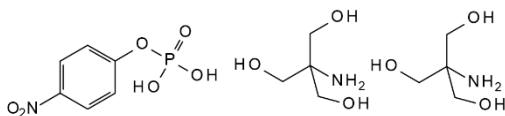
4-Nitrophenyl phosphate bis(tris(hydroxymethyl)amino methane)

• 4-Nitrophenyl phosphate bis(tris) salt

[68189-42-4] C₈H₈NO₈P·2C₄H₁₁NO₃ 461.36

EN11786

10g	\$73.50
25g	\$157.50
50g	\$236.50

**4-Nitrophenyl phosphate bis(tris) salt**

see 4-Nitrophenyl phosphate bis(tris(hydroxymethyl)amino methane), EN11786 on page 127

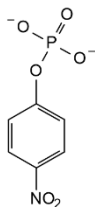
4-Nitrophenyl phosphate disodium salt hexahydrate

• PNPP

[4264-83-9][333338-18-4] C₈H₄NO₈PNa₂·6H₂O 371.15

EN08508

50g	\$75.00
100g	\$135.00
250g	\$295.00



Na⁺
Na⁺
OH₂
OH₂
OH₂
OH₂
OH₂
OH₂

**4-Nitrophenyl phosphate potassium salt**

• pNP-Phos K

[208651-58-5] C₈H₅NO₈P·K 257.18

EN52255

Price On Application

**4-Nitrophenyl phosphate**

• PHOSPHORIC ACID MONO-(4-NITRO-PHENYL) ESTER

[330-13-2] C₈H₈NO₆P 219.09

EN01432

10mg	\$60.00
25mg	\$125.00
50mg	\$200.00

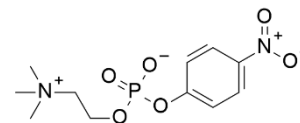
**4-Nitrophenylphosphorylcholine**

- 2-[[[Hydroxy(4-nitrophenoxy)phosphinyl]oxy]-N,N,N-trimethyl-ethanaminium inner salt
- Phosphocholine 4-nitrophenyl ester

[21064-69-7] C₁₁H₁₇N₂O₆P 304.24

EN26341

100mg	\$50.00
250mg	\$85.00
500mg	\$150.00



Refs: Biochem, 11, 766 (1972)

**4-Nitrophenyl pivalate**

see 4-Nitrophenyl trimethylacetate, EN00417 on page 134

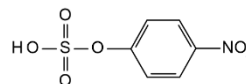
4-Nitrophenyl sulfate potassium salt

• Potassium p-nitrophenyl sulphate

[6217-68-1] C₆H₄KNO₆S 257.26

EN27113

250mg	\$45.00
500mg	\$70.00
1g	\$120.00



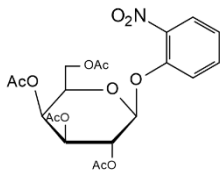
Nitrophenylt

2-Nitrophenyl 2,3,4,6-tetra-O-acetyl-b-D-galactopyranoside

[3053-17-6] C₂₀H₂₃NO₁₂ 469.4

EN04819

100mg	\$84.00
250mg	\$197.50
500mg	\$345.00

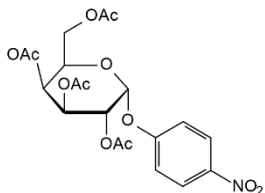


4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-a-D-galactopyranoside

[17042-39-6] C₂₀H₂₃NO₁₂ 469.4

EN09919

500mg	\$105.00
1g	\$157.50
2g	\$525.00



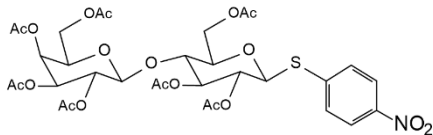
4-Nitrophenyl 4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2,3,6-tri-O-acetyl-b-D-thioglucopyranoside

- 4-Nitrophenyl hepta-O-acetyl-b-thiolactoside
- 4-Nitrophenyl 2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-b-D-thioglucopyranoside

[27894-81-1] C₃₂H₃₉NO₁₉S 773.71

EN04992

2mg	\$94.50
5mg	\$157.50
10mg	\$262.50



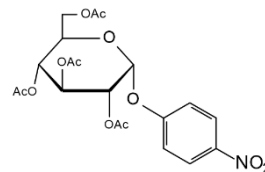
4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-a-D-glucopyranoside

• p-Nitrophenyl 2,3,4,6-tetra-O-acetyl-a-D-glucopyranoside

[14131-42-1] C₂₀H₂₃NO₁₂ 469.4

EN04836

500mg	\$105.00
1g	\$157.50
2g	\$283.50

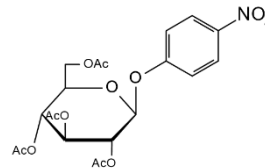


4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-b-D-glucopyranoside

[5987-78-0] C₂₀H₂₃NO₁₂ 469.4

EN04799

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



p-Nitrophenyl 2,3,4,6-tetra-O-acetyl-a-D-glucopyranoside

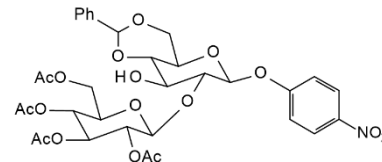
see 4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-a-D-glucopyranoside, EN04836 on page 128

4-Nitrophenyl 2-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-4,6-O-benzylidene-b-D-glucopyranoside

[26255-68-5] C₃₃H₃₇NO₁₇ 719.64

EN06463

1mg	\$89.30
2mg	\$157.50
5mg	\$262.50



4-Nitrophenyl 4-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranoside 2,3,6-triacetate

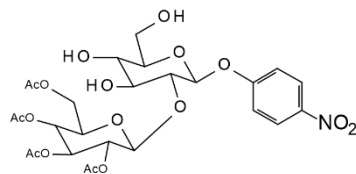
see 4-Nitrophenyl b-D-cellobioside heptacetate, EN16482 on page 110

N

4-Nitrophenyl 2-O-(2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl)- β -D-glucopyranoside[26255-69-6] C₂₆H₃₃NO₁₇ 631.54

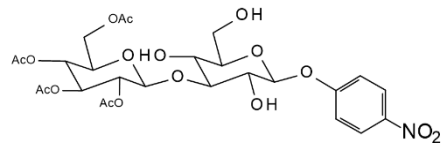
EN04842

1mg	\$99.80
2mg	\$168.00
5mg	\$367.50

**4-Nitrophenyl 3-O-(2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl)- β -D-glucopyranoside**C₂₆H₃₃NO₁₇ 631.54

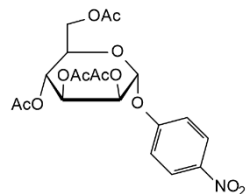
EN04810

1mg	\$99.80
2mg	\$168.00
5mg	\$367.50

**4-Nitrophenyl 2,3,4,6-tetra-O-acetyl- α -D-mannopyranoside**[13242-51-8] C₂₀H₂₃NO₁₂ 469.4

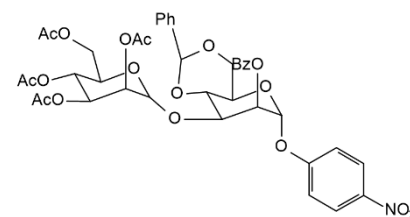
EN05723

100mg	\$90.00
500mg	\$370.00
1g	\$630.00

**p-Nitrophenyl 2,3,4,6-tetra-O-acetyl- α -D-mannopyranoside**see 4-Nitrophenyl 2,3,4,6-tri-O-acetyl- α -D-mannopyranoside, EN16817 on page 132**4-Nitrophenyl 3-O-(2,3,4,6-tetra-O-acetyl- α -D-mannopyranosyl)-2-O-benzoyl-4,6-O-benzylidene- α -D-mannopyranoside**C₄₀H₄₁NO₁₈ 823.75

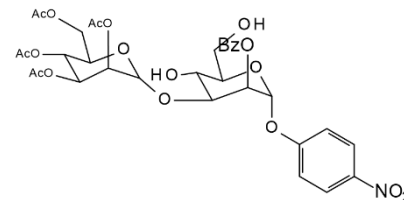
EN06458

10mg	\$99.80
25mg	\$168.00
50mg	\$262.50

**4-Nitrophenyl 3-O-(2,3,4,6-tetra-O-acetyl- α -D-mannopyranosyl)-2-O-benzoyl- α -D-mannopyranoside**C₃₃H₃₇NO₁₈ 735.64

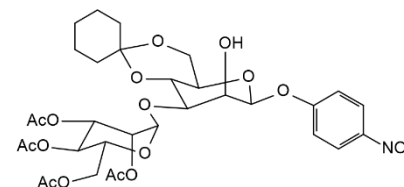
EN04784

5mg	\$89.30
10mg	\$157.50
50mg	\$367.50

**4-Nitrophenyl 3-O-(2,3,4,6-tetra-O-acetyl- α -D-mannopyranosyl)-4,6-O-cyclohexylidene- β -D-mannopyranoside**C₃₂H₄₁NO₁₇ 711.66

EN06121

1mg	\$99.80
2mg	\$168.00
5mg	\$367.50



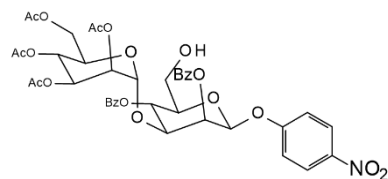
Nitrophenylt

4-Nitrophenyl 3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-2,4-di-O-benzoyl-b-D-mannopyranoside

C₄₀H₄₁NO₁₉ 839.75

EN04820

1mg	\$99.80
2mg	\$168.00
5mg	\$367.50

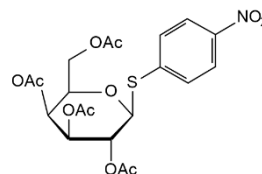


4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-b-D-thiogalactopyranoside

[41341-55-3] C₂₀H₂₃NO₁₁S 485.47

EN04939

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



4-Nitrophenyl-2,3,4,6-tetra-O-acetyl-b-D-thioglucopyranoside

EN43887

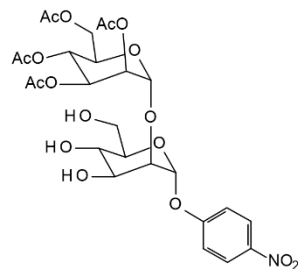
Price On Application

4-Nitrophenyl 2-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-a-D-mannopyranoside

C₂₆H₃₃NO₁₇ 631.54

EN06456

1mg	\$115.50
5mg	\$420.00
10mg	\$819.00

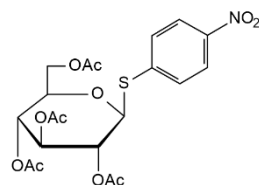


4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-b-D-thioglucopyranoside

C₂₀H₂₃NO₁₁S 485.47

EN08838

Price On Application

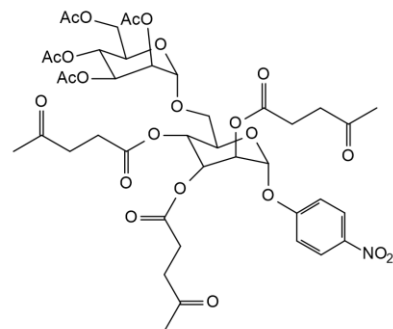


4-Nitrophenyl 6-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-2,3,4-tri-O-levulinoyl-a-D-mannopyranoside

C₄₁H₅₁NO₂₃ 925.84

EN06462

1mg	\$99.80
2mg	\$168.00
5mg	\$367.50

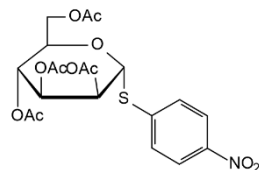


4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-a-D-thiomannopyranoside

C₂₀H₂₃NO₁₁S 485.47

EN08837

Price On Application



N

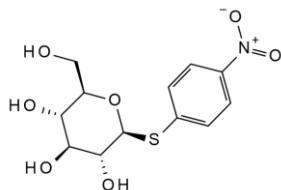
4-Nitrophenyl tetradecanoate

see 4-Nitrophenyl myristate, EN15364 on page 125

4-Nitrophenyl-β-D-thioglucopyranoside

EN43889

Price On Application

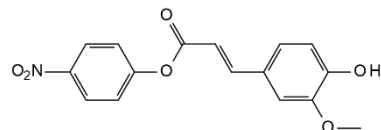
**4-Nitrophenyl trans-ferulate**

• 3-Methoxy-4-hydroxycinnamic acid 4-nitrophenyl ester

[398128-60-4] C₁₈H₁₃NO₆ 315.28

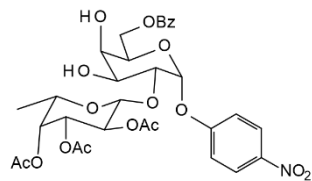
EN05238

100mg	\$60.00
250mg	\$95.00
500mg	\$160.00

**4-Nitrophenyl 2-O-(2,3,4-tri-O-acetyl-β-L-fucopyranosyl)-6-O-benzoyl-α-D-galactopyranoside**C₃₁H₃₅NO₁₆ 677.61

EN04788

1mg	\$210.00
2mg	\$367.50
5mg	\$735.00

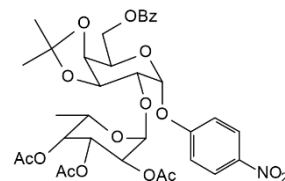


Refs: J. Carbohydr. Chem. 1992, 11(3), p397; Carbohydr. Res, 1967, 4, p189; Can. J. Chem, 1981, 59, p314

4-Nitrophenyl 2-O-(2,3,4-tri-O-acetyl-α-L-fucopyranosyl)-6-O-benzoyl-3,4-O-isopropylidene-α-D-galactopyranosideC₃₄H₃₉NO₁₆ 717.67

EN06603

1mg	\$78.80
2mg	\$115.50
5mg	\$199.50

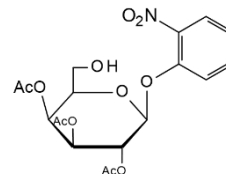


Refs: J. Carbohydr. Chem. 1992, 11(3), p397

**2-Nitrophenyl 2,3,4-tri-O-acetyl-β-D-galactopyranoside**C₁₈H₂₁NO₁₁ 427.36

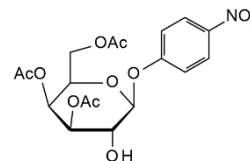
EN04832

50mg	\$100.00
100mg	\$153.00
500mg	\$395.00

**4-Nitrophenyl 3,4,6-tri-O-acetyl-β-D-galactopyranoside**[62346-04-7] C₁₈H₂₁NO₁₁ 427.36

EN06835

25mg	\$236.50
50mg	\$415.00
100mg	\$735.00



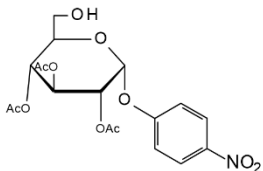
Nitrophenylt

4-Nitrophenyl 2,3,4-tri-O-acetyl-a-D-glucopyranoside

C₁₈H₂₁NO₁₁ 427.36

EN04821

5mg	\$99.80
10mg	\$152.30
50mg	\$525.00

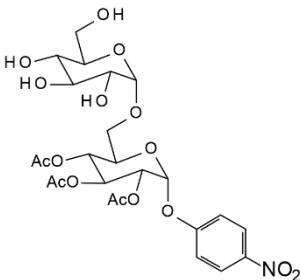


4-Nitrophenyl 2,3,4-tri-O-acetyl-6-O-(a-D-glucopyranosyl)-a-D-glucopyranoside

C₂₄H₃₁NO₁₆ 589.51

EN06122

0.5mg	\$110.30
1mg	\$178.50
2mg	\$299.30



4-Nitrophenyl 2,3,4-tri-O-acetyl-b-D-glucuronic acid methyl ester

see 4-Nitrophenyl 2,3,4-tri-O-acetyl-b-D-glucuronide methyl ester, EN06824 on page 132

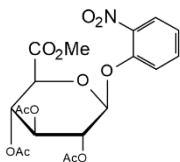
2-Nitrophenyl 2,3,4-tri-O-acetyl-b-D-glucuronide methyl ester

• Methyl (2-nitrophenyl 2,3,4-tri-O-acetyl-b-D-glucopyranosid)uronate

[55274-44-7] C₁₉H₂₁NO₁₂ 455.37

EN04805

50mg	\$95.00
100mg	\$170.00
250mg	\$375.00



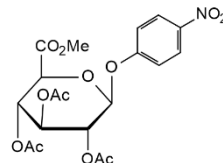
4-Nitrophenyl 2,3,4-tri-O-acetyl-b-D-glucuronide methyl ester

- 4-Nitrophenyl 2,3,4-tri-O-acetyl-b-D-glucuronic acid methyl ester
- Methyl (4-nitrophenyl 2,3,4-tri-O-acetyl-b-D-glucopyranosid)uronate

[18472-49-6] C₁₉H₂₁NO₁₂ 455.37

EN06824

100mg	\$90.00
250mg	\$185.00
500mg	\$345.00



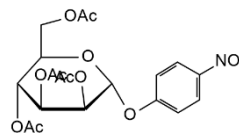
4-Nitrophenyl 2,3,4,6-tri-O-acetyl-a-D-mannopyranoside

- p-Nitrophenyl 2,3,4,6-tetra-O-acetyl-a-D-mannopyranoside
- 4-Nitrophenyl a-D-mannopyranoside 2,3,4,6-tetraacetate

[13242-51-8] C₂₀H₂₃NO₁₂ 469.4

EN16817

250mg	\$122.50
500mg	\$225.00
1g	\$396.40

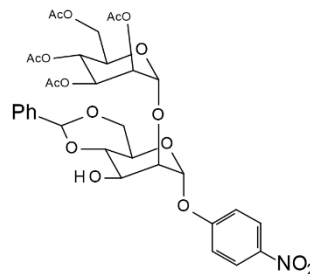


4-Nitrophenyl 2-O-(2,3,4,6-tri-O-acetyl-a-D-mannopyranosyl)-4,6-O-benzylidene-a-D-mannopyranoside

C₃₃H₃₇NO₁₇ 719.64

EN04822

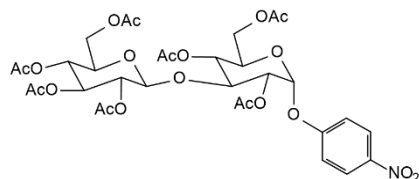
5mg	\$89.30
10mg	\$178.50
50mg	\$546.00



4-Nitrophenyl 2,4,6-tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-a-D-glucopyranosideC₃₂H₃₉NO₂₀ 757.65

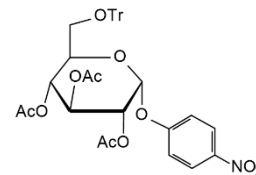
EN06457

0.5mg	\$89.30
1mg	\$157.50
2mg	\$231.00

**4-Nitrophenyl 2,3,4-tri-O-acetyl-6-O-trityl-a-D-glucopyranoside**C₃₇H₃₅NO₁₁ 669.67

EN06821

10mg	\$89.30
25mg	\$168.00
50mg	\$294.00

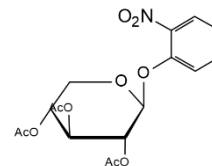
**4-Nitrophenyl 2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-b-D-thioglucoopyranoside**

see 4-Nitrophenyl 4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2,3,6-tri-O-acetyl-b-D-thioglucoopyranoside, EN04992 on page 128

2-Nitrophenyl 2,3,4-tri-O-acetyl-b-D-xylopyranoside[10256-24-3] C₁₇H₁₉NO₁₀ 397.33

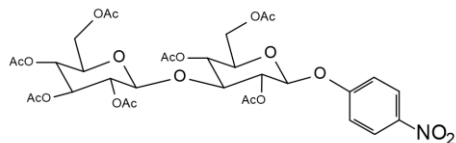
EN04806

5mg	\$99.80
10mg	\$157.50
25mg	\$294.00

**4-Nitrophenyl 2,4,6-tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranoside**[195715-98-1] C₃₂H₃₉NO₂₀ 757.65

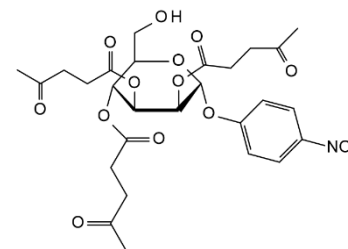
EN04802

0.5mg	\$89.30
1mg	\$157.50
2mg	\$231.00

**4-Nitrophenyl 2,3,4-tri-O-levulinoyl-a-D-mannopyranoside**C₂₇H₃₃NO₁₄ 595.55

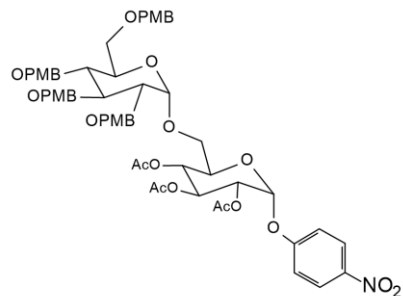
EN04852

5mg	\$89.30
10mg	\$168.00
25mg	\$294.00

**4-Nitrophenyl 2,3,4-tri-O-acetyl-6-O-(2,3,4,6-tetra-O-[4-methoxybenzyl]-a-D-glucopyranosyl)-a-D-glucopyranoside**C₅₆H₅₅NO₂₄ 1126.03

EN04817

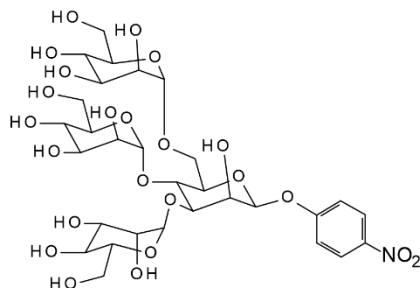
0.5mg	\$157.50
1mg	\$236.30
2mg	\$420.00



Nitrophenyl**4-Nitrophenyl 3,4,6-tri-O-(α -D-mannopyranosyl)- β -D-mannopyranoside**C₃₀H₄₅NO₂₃ 787.67

EN04829

0.5mg	\$682.50
1mg	\$1260.00
2mg	\$2310.00

**4-Nitrophenyl trimethylacetate**

• 4-Nitrophenyl pivalate

[4195-17-9] (CH₃)₃CCO₂C₆H₄NO₂ 223.23

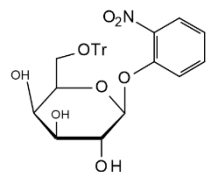
EN00417

Price On Application

**2-Nitrophenyl 6-O-trityl- β -D-galactopyranoside**[114102-89-5] C₃₁H₂₉NO₈ 543.56

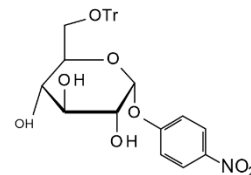
EN04800

250mg	\$262.50
500mg	\$420.00
1g	\$693.00

**4-Nitrophenyl 6-O-trityl- α -D-glucopyranoside**[655246-35-8] C₃₁H₂₉NO₈ 543.56

EN04853

25mg	\$89.50
50mg	\$157.50
100mg	\$284.00

**3-Nitrotetrazolium blue chloride**

• 3,3'-(3,3'-Dimethoxy-4,4'-biphenylene)bis[5-(3-nitrophenyl)-2-phenyl-2H-tetrazolium chloride]

[127615-60-5] C₄₀H₃₀Cl₂N₁₀O₆ 817.64

EN31977

25mg	\$79.00
50mg	\$131.50
100mg	\$210.00

**X-Nonanoate**

see 5-Bromo-4-chloro-3-indolyl nonanoate, EB05702 on page 25

Nonanoic acid 4-methylumbelliferyl ester

see 4-Methylumbelliferyl nonanoate, EM52253 on page 83

Nonanoyl-N-Hydroxyethylglucamide

• HEGA-9

[869653-90-7] C₁₇H₃₅NO₇ 365.46

DN59724

1g	\$195.00
2g	\$380.00
5g	\$875.00



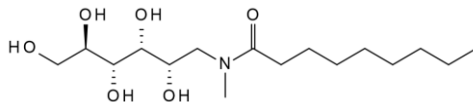
N-Nonanoyl-N-methylglucamine

• Mega-9

[85261-19-4] C₁₆H₃₃NO₆ 335.44

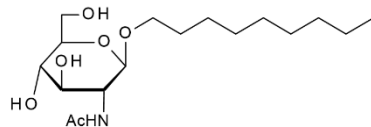
DN12019

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

**Nonyl 2-acetamido-2-deoxy-b-D-glucopyranoside**[173725-28-5] C₁₇H₃₃NO₆ 347.45

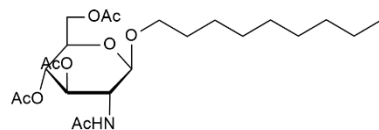
DN02485

1g	\$89.30
2g	\$157.50
5g	\$262.50

**Nonyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside**[173725-23-0] C₂₉H₃₉NO₉ 473.56

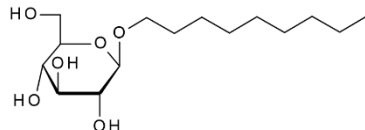
DN01847

Price On Application

**Nonyl b-D-glucopyranoside**[69984-73-2] C₁₅H₃₀O₆ 306.4

DN03173

1g	\$125.00
2g	\$196.00
5g	\$425.00

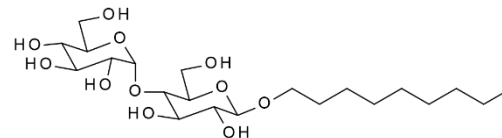


Refs: Chung YJ, Jeffrey GA, Biochim. Biophys. Acta 1989, 985, 300; de Grip WJ, Bovee-Geurts PHM, Chem. Phys. Lipids 1979, 23, 312-325; Ostermeier C, Harrenga A, Ermiler U, Michel H, Proc. Natl. Acad. Sci. USA 1997, 94, 10547-10553; Mechref Y, Rassi ZE, J. Chromatogr. 1997, 757, 263-273; Zer H, Vink M, Shochat S, Biochemistry, 2003, 42, p728-738

Nonyl b-D-maltopyranoside[106402-05-5] C₂₁H₄₀O₁₁ 468.54

DN05115

1g	\$99.80
2g	\$157.50
5g	\$315.00

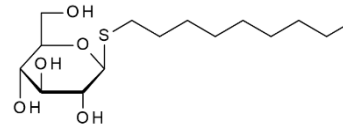


Refs: Gutmann DAP, Mizohata E, Newstead S, Ferrandon S, Henderson PJF, van Veen HW, Byrne B, Protein Sci.2007, 16, p1422

Nonyl b-D-thioglucopyranoside[98854-15-0] C₁₅H₃₀O₅S 322.46

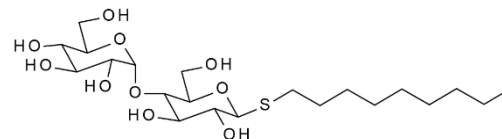
DN05106

1g	\$157.50
2g	\$262.50
5g	\$420.00

**Nonyl b-D-thiomaltopyranoside**[148565-55-3] C₂₁H₄₀O₁₀S 484.6

DN05109

250mg	\$60.00
500mg	\$105.00
1g	\$189.00



Refs: Mechref Y, Rassi ZE, J. Chromatogr. 1997, 757, 263-273

Novobiocin sodium salt

- Albamycin
- Cathomycin

[1476-53-5] C₃₁H₃₅N₂NaO₁₁ 634.61

EN15775

2g	\$52.00
5g	\$100.00
10g	\$180.00



NPNacetyllic**p-NP N-acetylactoside**

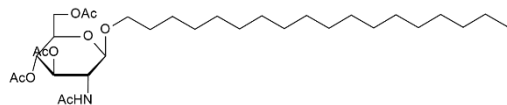
see *4-Nitrophenyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside*, EN04915 on page 101

Octadecyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside

[135198-09-3] C₃₂H₅₇NO₉ 599.8

DO06611

Price On Application

**Octadecylthioethyl 4-O-(a-D-galactopyranosyl)-b-D-galactopyranoside**

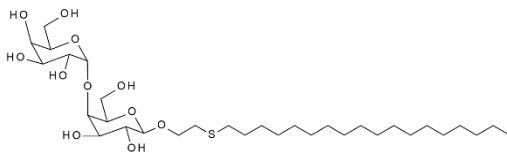
• a-D-Gal-(1→4)-b-D-Gal-1→O-OTE

[87019-34-9] C₃₂H₆₂O₁₁S 654.89

DO06531

1mg

\$288.80

**Octadecylthioethyl 4-O-(4-O[6-O-a-D-glucopyranosyl-a-D-glucopyranosyl]-a-D-glucopyranosyl)-b-D-glucopyranoside**

• Octadecylthioethyl 6-a-D-glucopyranosyl maltotrioside

[90215-01-3] C₄₄H₈₂O₂₁S 979.18

DO05214

1mg

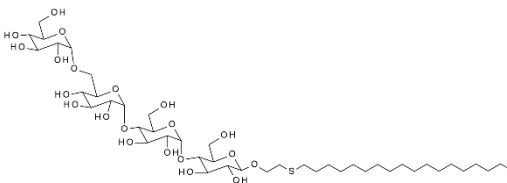
\$550.00

2mg

\$1050.00

5mg

\$2250.00



Refs: Kuriyama M, et al, J. Biochem. 1985, Tokyo, 98, 1041; Hallgren P, et al, J. Biol. Chem. 1977, 252, 1034

Octadecylthioethyl 6-a-D-glucopyranosyl maltotrioside

see *Octadecylthioethyl 4-O-(4-O[6-O-a-D-glucopyranosyl-a-D-glucopyranosyl]-a-D-glucopyranosyl)-b-D-glucopyranoside*, DO05214 on page 136

Octanoic acid 4-methylumbelliferyl ester

see *4-Methylumbelliferyl caprylate*, EM15597 on page 80

5-Octanoylamino fluorescein di-b-D-glactopyranoside

C₄₀H₄₇NO₁₆ 797.8

EO03234

1mg

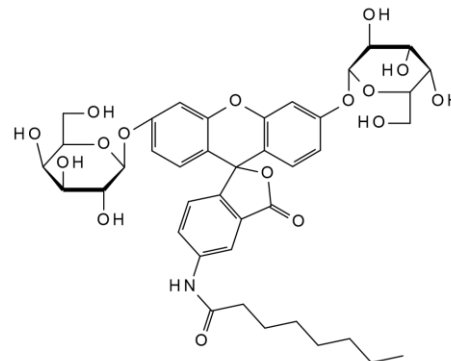
\$115.50

2mg

\$168.00

5mg

\$294.00

**Octanoyl D-glucopyranoside**

• Oxo-octyl-D-glucoside

[60415-65-8] C₁₄H₂₆O₇ 306.35

DO00379

250mg

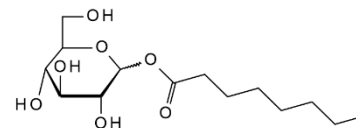
\$75.00

500mg

\$125.00

1g

\$195.00

**Octanoyl-D-glucopyranoside**

DO43901

Price On Application



Octanoyl-N-hydroxyethylglucamide

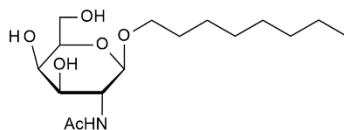
• HEGA-8

[869652-63-1] C₁₈H₃₃NO₇ 351.44

DO59723	1g	\$195.00
	2g	\$380.00
	5g	\$875.00

**Octanoyl-N-methylglucamide**see *N-Methyl-N-octanoylglucamine*, DM32207 on page 70**Octyl 2-acetamido-2-deoxy-b-D-galactopyranoside**[383417-49-0] C₁₆H₃₁NO₆ 333.42

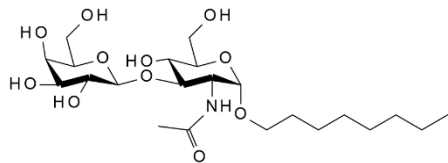
DO05726	25mg	\$115.50
	50mg	\$199.50
	100mg	\$315.00

**Octyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-glucopyranoside**

• Galb1,3GlcNAc-a-octyl

[607353-49-1] C₂₂H₄₁NO₁₁ 495.56

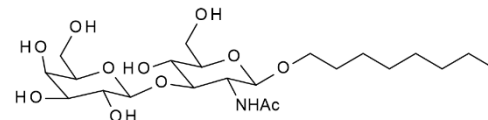
DO16485	1mg	\$738.10
	2mg	\$1342.00
	5mg	\$2440.00

**Octyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-glucopyranoside**

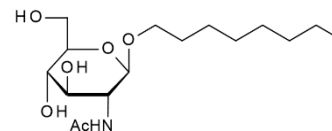
• Gal1-b-3GlcNAc-b-octyl

[197390-85-5] C₂₂H₄₁NO₁₁ 495.56

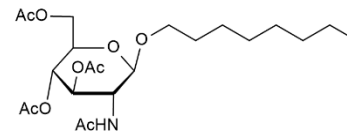
DO06323	1mg	\$89.30
	2mg	\$157.50
	5mg	\$262.50

**Octyl 2-acetamido-2-deoxy-b-D-glucopyranoside**[147126-58-7] C₁₆H₃₁NO₆ 333.42

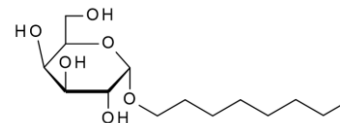
DO01850	25mg	\$89.50
	50mg	\$157.50
	100mg	\$263.00

**Octyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside**[173725-22-9] C₂₂H₃₇NO₉ 459.53

DO01849	50mg	\$115.50
	100mg	\$189.00
	250mg	\$367.50

**Octyl a-D-galactopyranoside**[149342-80-3] C₁₄H₂₈O₆ 292.37

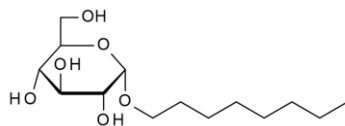
DO07151	1g	\$95.00
	2g	\$170.00
	5g	\$340.00



Octylglucop**Octyl α -D-glucopyranoside**• N-Octyl α -Glucoside[29781-80-4] C₁₄H₂₈O₆ 292.37

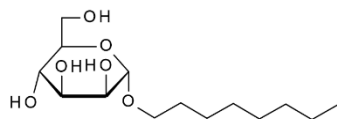
DO04849

250mg	\$65.00
500mg	\$95.00
1g	\$150.00

**N-Octyl α -Glucoside**see *Octyl α -D-glucopyranoside*, DO04849 on page 138**Octyl α -D-mannopyranoside**[124650-29-9] C₁₄H₂₈O₆ 292.37

DO07149

100mg	\$175.00
250mg	\$275.00
500mg	\$450.00



Refs: Ogawaa S, Osanai S, Cryobiology, 2007, 54, 2, p173

Octyl α -L-rhamnopyranoside

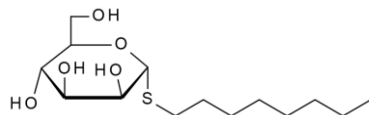
DO45778

1g	\$65.00
2g	\$90.00
5g	\$175.00

**Octyl α -D-thiomannopyranoside**C₁₄H₂₈O₅S 308.44

DO08842

Price On Application

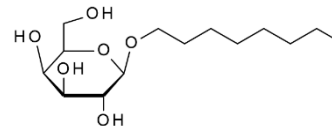
**Octyl b-D-galactopyranoside**

• n-Octyl b-D-galactoside

[40427-75-6] C₁₄H₂₈O₆ 292.37

DO06352

1g	\$95.00
2g	\$170.00
5g	\$375.00



Refs: Stevenson DE, Stanley RA, Furneaux RH, Biotechnol. Bioeng. 1993, 42, 657-666

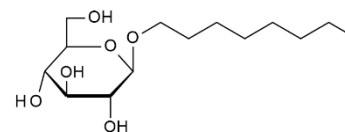
n-Octyl b-D-galactosidesee *Octyl b-D-galactopyranoside*, DO06352 on page 138**1-O-Octyl b-D-glucopyranoside**see *Octyl b-D-glucopyranoside*, DO05161 on page 138**Octyl b-D-glucopyranoside**

- n-Octylglucoside
- 1-O-Octyl b-D-glucopyranoside
- OG

[29836-26-8] C₁₄H₂₈O₆ 292.37

DO05161

5g	\$30.00
10g	\$50.00
25g	\$90.00



Refs: Gould RJ, et al, Biochemistry, 1981, 20, p6776; Lorber B, Bishop JB, Delucas L, J. Biochim. Biophys. Acta, 1990, 1023, p254-265; Conlan S, Bayley H, Biochemistry, 2003, 42, p9453-9465; Jopski B, et al, Biochim. Biophys. Acta, 1989, 978, 79; Fanucci GE, Lee JY, Cafiso DS, Biochemistry 2003, 42, p13106-13112

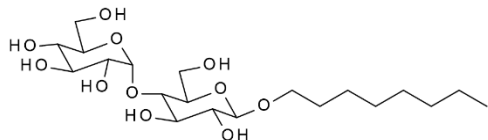
Octyl b-D-lactosidesee *Octyl 4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside*, DO02094 on page 140

n-Octyl b-D-maltoside

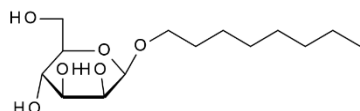
- Octyl 4-O-(a-D-glucopyranosyl)-b-D-glucopyranoside
- OM

[82494-08-4] C₂₀H₃₈O₁₁ 454.51

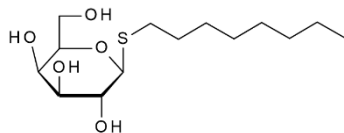
DO05084	1g	\$100.00
	2g	\$190.00
	5g	\$403.75

**Octyl b-D-mannopyranoside**[140147-38-2] C₁₄H₂₈O₆ 292.37

DO06378	5mg	\$60.00
	10mg	\$100.00
	25mg	\$235.00

**Octyl b-D-thiogalactopyranoside**[42891-16-7] C₁₄H₂₈O₅S 308.44

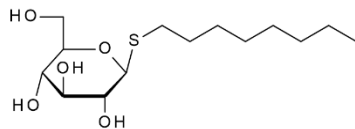
DO08841	500mg	\$70.00
	1g	\$99.80
	2g	\$157.50

**Octyl b-D-thioglucopyranoside**

- n-Octyl b-D-thioglucoside

[85618-21-9] C₁₄H₂₈O₅S 308.44

DO06354	2g	\$45.00
	5g	\$80.00
	10g	\$155.00



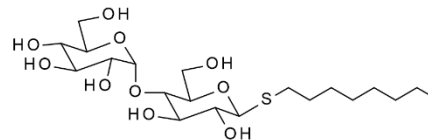
Refs: Saito S, Tsuchiya T, Biochem. J. 1984, 222, 829-832; Wenk MR, Seelig J, Biophys. J. 1997, 73, 2565-2574

n-Octyl b-D-thioglucosidesee *Octyl b-D-thioglucopyranoside*, DO06354 on page 139**Octyl b-D-thiomaltopyranoside**

- n-Octyl b-D-thiomaltoside
- Octyl 4-O-a-D-glucopyranosyl-1-thio-b-D-glucopyranoside

[148616-91-5] C₂₀H₃₈O₁₀S 470.58

DO05739	1g	\$115.50
	5g	\$472.50
	10g	\$892.50

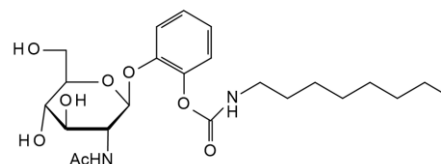


Refs: Mechref Y, Rassi ZE, J. Chromatogr. 1997, 757, 263-273

n-Octyl b-D-thiomaltosidesee *Octyl b-D-thiomaltopyranoside*, DO05739 on page 139**2-(N-Octylcarboamido)phenyl-2-acetamido-2-deoxy-b-D-glucopyranoside**C₂₃H₃₈N₂O₈ 468.54

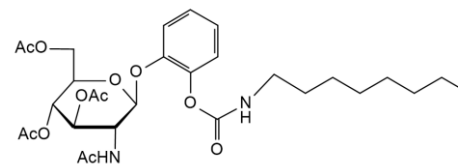
DO06377

Price On Application

**2-(N-Octylcarboamido)phenyl-2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside**C₂₉H₄₂N₂O₁₁ 594.65

DO06376

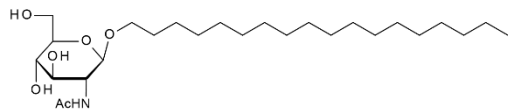
Price On Application



Octyldecylac**Octyldecyl 2-acetamido-2-deoxy- β -D-glucopyranoside**[173725-29-6] C₂₈H₅₁NO₆ 473.69

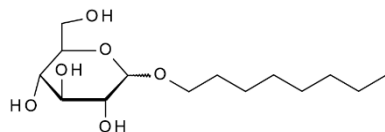
DO02507

500mg	\$95.00
1g	\$168.00
2g	\$315.00

**Octyl D-glucopyranoside**[54549-23-4] C₁₄H₂₈O₆ 292.37

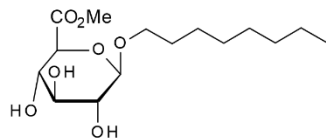
DO04996

5g	\$30.00
10g	\$50.00
25g	\$95.00

**Octyl D-glucuronide methyl ester**C₁₅H₂₈O₇ 320.39

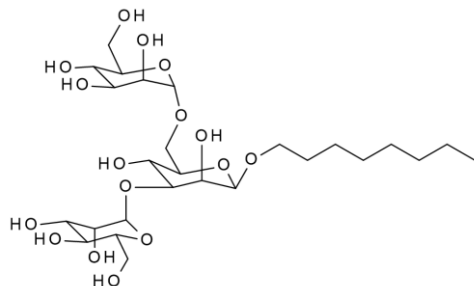
DO08606

1g	\$84.00
2g	\$126.00
5g	\$262.50

**Octyl 3,6-di-O-(α -D-mannopyranosyl)- β -D-mannopyranoside**• Man- α -1-6-(Man- α -1-3)Man- β -O-octyl[140147-36-0] C₂₈H₄₈O₁₆ 616.65

DO04803

500ug	\$100.00
1mg	\$189.00
2mg	\$336.00

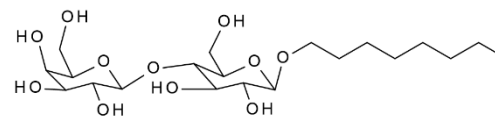


Refs: Schachter H, et al, Clin. Biochem. 2003, 36, 339

Octyl 4-O-(β -D-galactopyranosyl)- β -D-glucopyranoside• Octyl β -D-lactoside[74513-17-0] C₂₀H₃₆O₁₁ 454.51

DO02094

50mg	\$115.50
100mg	\$210.00
250mg	\$395.00

**Octyl 4-O-(α -D-glucopyranosyl)- β -D-glucopyranoside**see *n*-Octyl β -D-maltoside, DO05084 on page 139**Octyl 4-O- α -D-glucopyranosyl-1-thio- β -D-glucopyranoside**see Octyl β -D-thiomaltopyranoside, DO05739 on page 139**Octyl glucose neopentyl glycol**

- 2,2-Dihexylpropane-1,3-bis β -D-glucopyranoside
- Octyl MNG

[1257853-32-9] C₂₇H₅₂O₁₂ 568.69

DO14034

500mg	\$85.00
1g	\$115.00
2g	\$210.00

***n*-Octylglucoside**see Octyl β -D-glucopyranoside, DO05161 on page 138**Octyl- β -D-glucuronide methyl ester**

DO43902

Price On Application

**Octyl MNG**

see Octyl glucose neopentyl glycol, DO14034 on page 140

Octyl 4-nitrophenyl hexylphosphonate

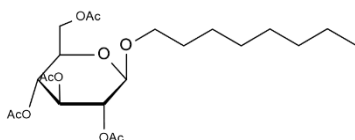
EO46652

Price On Application

**Octyl 2,3,4,6-tetra-O-acetyl-b-D-glucopyranoside**[38954-67-5] C₂₂H₃₆O₁₀ 460.52

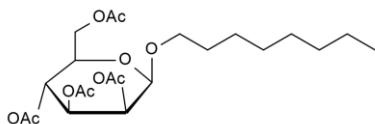
DO04976

250mg	\$50.00
500mg	\$90.00
1g	\$150.00

**Octyl 2,3,4,6-tetra-O-acetyl-b-D-mannopyranoside**[128299-96-7] C₂₂H₃₆O₁₀ 460.52

DO10399

5mg	\$94.50
10mg	\$157.50
25mg	\$210.00

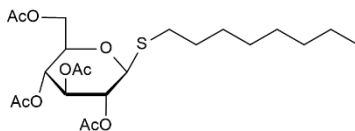
**Octyl 2,3,4,6-tetra-O-acetyl-b-D-thioglucopyranoside**

• Octyl 1-thio-β-D-glucopyranoside tetraacetate

[85618-26-4] C₂₂H₃₆O₉S 476.58

DO06379

250mg	\$75.00
500mg	\$105.00
1g	\$199.50

**Octyl 1-thio-β-D-glucopyranoside tetraacetate**see *Octyl 2,3,4,6-tetra-O-acetyl-β-D-thioglucopyranoside*, DO06379 on page 141**OG**see *Octyl β-D-glucopyranoside*, DO05161 on page 138**OM**see *n-Octyl β-D-maltoside*, DO05084 on page 139**ONP-caprylate**see *2-Nitrophenyl caprylate*, EN15363 on page 118**ONP-cellobioside**see *2-Nitrophenyl β-D-cellobioside*, EN03286 on page 110**ONP-β-D-Fuc**see *2-Nitrophenyl β-D-fucopyranoside*, EN03289 on page 112**ONP-β-L-Fuc**see *2-Nitrophenyl β-L-fucopyranoside*, EN07168 on page 112**ONP-a-GalNAc**see *2-Nitrophenyl 2-acetamido-2-deoxy-α-D-galactopyranoside*, EN05995 on page 100**ONP-GalNAc**see *2-Nitrophenyl 2-acetamido-2-deoxy-β-D-galactopyranoside*, EN05078 on page 100**ONP-a-Gal**see *2-Nitrophenyl α-D-galactopyranoside*, EN31181 on page 106**ONP-GlcA**see *2-Nitrophenyl β-D-glucuronide*, EN04827 on page 115**ONP-a-D-GlcNAc**see *2-Nitrophenyl 2-acetamido-2-deoxy-α-D-glucopyranoside*, EN03206 on page 102**ONP-glucoside**see *2-Nitrophenyl β-D-glucopyranoside*, EN06435 on page 114**ONPG**see *2-Nitrophenyl β-D-galactopyranoside*, EN06363 on page 113**ONPG**see *2-Nitrophenyl β-D-galactopyranoside - non-animal origin*, EN07012 on page 113

ONPmannoside**ONP-mannoside**

see 2-Nitrophenyl b-D-mannopyranoside, EN10094 on page 116

ONP-a-NeuNAc

see 2-O-(2-Nitrophenyl)-a-D-N-acetylneuraminic acid, EN06467 on page 106

ONP-1-thio-b-D-Gal

see 2-Nitrophenyl b-D-thiogalactopyranoside, EN03315 on page 116

ONP-xylobioside

see 2-Nitrophenyl b-D-xylobioside, EN06167 on page 117

ONP-Xyl

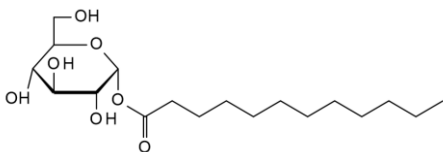
see 2-Nitrophenyl b-D-xylopyranoside, EN05295 on page 117

O

1-Oxododecyl a-D-glucopyranoside[64395-91-1] C₁₈H₃₄O₇ 362.46

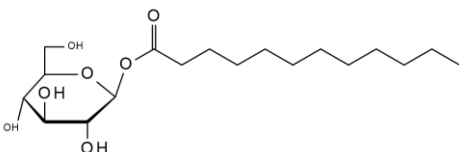
DO05160

30mg	\$54.00
50mg	\$71.50
100mg	\$119.00

**1-Oxododecyl b-D-glucopyranoside**[64395-92-2] C₁₈H₃₄O₇ 362.46

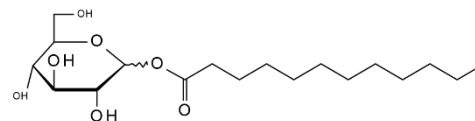
DO00320

1g	\$47.30
2g	\$78.80
5g	\$157.50

**1-Oxododecyl-D-glucopyranoside**[60415-67-0] C₁₈H₃₄O₇ 362.4

DO00959

Price On Application

**Oxo-octyl-D-glucoside**

see Octanoyl D-glucopyranoside, DO00379 on page 136

Palmitic acid 4-nitrophenyl ester

see 4-Nitrophenyl palmitate, EN15588 on page 126

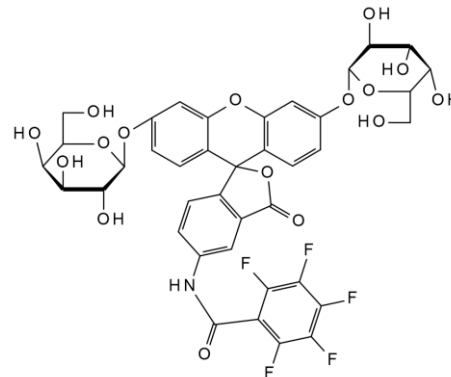
X-Pal

see 5-Bromo-4-chloro-3-indolyl palmitate, EB30756 on page 25

5-(Pentafluorobenzoylamino)fluorescein di-b-D-galactopyranosideC₃₉H₃₂F₅NO₁₆ 865.67

EP06469

1mg	\$95.00
2mg	\$170.00
5mg	\$345.00

**7-Pentoxyresorufin**

see Resorufin pentyl ether, ER26836 on page 148

7-(Pentyloxy)-3H-phenoxazin-3-one

see Resorufin pentyl ether, ER26836 on page 148

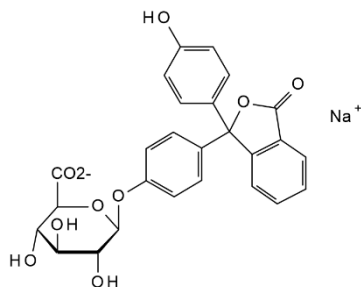
PETGsee *Phenylethyl b-D-thiogalactopyranoside*, EP03215 on page 143**PG2**see *4-Nitrophenyl a-D-maltopyranoside*, EN06670 on page 108**PG4**see *4-Nitrophenyl a-D-maltotetraoside*, EN05083 on page 108**PG5**see *4-Nitrophenyl a-D-maltopentaoside*, EN05438 on page 108**PHEG**see *Phenolphthalein b-D-glucuronide sodium salt monohydrate*, EP06598 on page 143**Phenolphthalein b-D-glucuronide sodium salt monohydrate**

• PHEG

[6820-54-8] C₂₆H₂₁O₁₀·Na 516.43

EP06598

10mg	\$63.00
25mg	\$100.00
50mg	\$184.00

**L-Phenylalanine-AMC.TFA salt**see *L-Phenylalanine 7-amido-4-methylcoumarin trifluoroacetate salt*, EP15999 on page 143**L-Phenylalanine 7-amido-4-methylcoumarin trifluoroacetate salt**

• L-Phenylalanine-AMC.TFA salt

[108321-84-2] C₂₇H₁₉F₃N₂O₅ 436.38

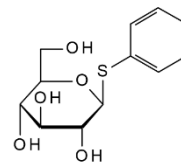
EP15999

100mg	\$53.00
250mg	\$105.00
500mg	\$185.00

**Phenyl b-D-thioglucoopyranoside**[2936-70-1] C₁₂H₁₆O₅S 272.32

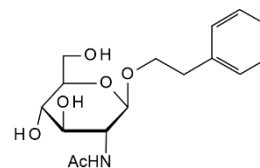
EP03243

1g	\$90.00
2g	\$160.00
5g	\$300.00

**Phenylethyl 2-acetamido-2-deoxy-b-D-glucopyranoside**[197574-94-0] C₁₈H₂₃NO₆ 325.36

EP01856

Price On Application

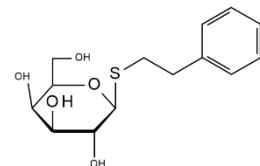
**Phenylethyl b-D-thiogalactopyranoside**

• PETG

[800376-82-3][63407-54-5] C₁₄H₂₀O₅S 300.37

EP03215

20mg	\$75.00
50mg	\$150.00
100mg	\$250.00



Refs: Odera J, Sato T, Japan Kokai Tokkyo Koho, 1988, p6

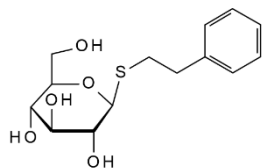
Phenylethylb**Phenylethyl b-D-thioglucopyranoside**

• 2-Phenylethyl b-D-thioglucoside

C₁₄H₂₀O₅S 300.37

EP08223

10mg	\$68.30
25mg	\$121.00
50mg	\$210.00

**2-Phenylethyl b-D-thioglucoside**see *Phenylethyl b-D-thioglucopyranoside*, EP08223 on page 144**Phenylethyl b-D-thioglucuronide**C₁₂H₁₄N₂O₃S 266.3

EP04421

Price On Application

**X-Phos-choline**see *5-Bromo-4-chloro-3-indoxyl choline phosphate*, EB56755 on page 27**Phosphocholine 4-nitrophenyl ester**see *4-Nitrophenylphosphorylcholine*, EN26341 on page 127**Phosphocreatine**see *Creatine phosphate disodium salt hexahydrate*, EC70361 on page 42**PHOSPHORIC ACID MONO-(4-NITRO-PHENYL) ESTER**see *4-Nitrophenyl phosphate*, EN01432 on page 127**PNP-a-arabinside**see *4-Nitrophenyl a-L-arabinopyranoside*, EN06879 on page 97**PNP-arabinside**see *4-Nitrophenyl b-L-arabinopyranoside*, EN05253 on page 109**PNP-caprylate**see *4-Nitrophenyl caprylate*, EN15366 on page 118**PNP-cellobioside**see *4-Nitrophenyl b-D-cellobioside*, EN04798 on page 110**pNP-cellopentaose**see *4-Nitrophenyl b-D-cellopentaoside*, EN06431 on page 110**PNP-a-L-Fuc**see *4-Nitrophenyl a-L-fucopyranoside*, EN06434 on page 106**PNP-b-D-Fuc**see *4-Nitrophenyl b-D-fucopyranoside*, EN03274 on page 112**PNP-b-L-Fuc**see *4-Nitrophenyl b-L-fucopyranoside*, EN03228 on page 112**PNP-a-Gal**see *4-Nitrophenyl a-D-galactopyranoside*, EN03229 on page 107**PNP-glucoside**see *4-Nitrophenyl b-D-glucopyranoside*, EN03181 on page 114**PNPG**see *4-Nitrophenyl b-D-galactopyranoside*, EN06672 on page 114**PNP-mannoside**see *4-Nitrophenyl b-D-mannopyranoside*, EN06437 on page 116**PNP-a-NeuNAc.NH₄**see *2-O-(4-Nitrophenyl)-a-D-N-acetylneuraminic acid ammonium salt*, EN03262 on page 106**PNP-a-NeuNAc**see *2-O-(4-Nitrophenyl)-a-D-N-acetylneuraminic acid*, EN29246 on page 106**pNP-Phos K**see *4-Nitrophenyl phosphate potassium salt*, EN52255 on page 127**PNPP**see *4-Nitrophenyl phosphate disodium salt hexahydrate*, EN08508 on page 127

PNP-Rhamnosidesee 4-Nitrophenyl α -L-rhamnopyranoside, EN06877 on page 109**PNP-b-D-riboside**

see 4-Nitrophenyl b-D-ribofuranoside, EN15993 on page 116

 α -pNP 3'-Sialylgalacto-N-biosidesee 4-Nitrophenyl (N-acetyl- α -neuraminosyl)-(2 \rightarrow 3)-O-b-D-galactopyranosyl-(1 \rightarrow 3)-2-acetamido-2-deoxy- α -D-galactopyranoside, EN153397 on page 97**PNP-1-thio-b-D-Gal**

see 4-Nitrophenyl b-D-thiogalactopyranoside, EN04995 on page 116

PNP-1-thio-b-D-Man

see 4-Nitrophenyl b-D-thiomannopyranoside, EN06119 on page 117

PNP-xylobioside

see 4-Nitrophenyl b-D-xylobioside, EN15454 on page 117

PNP-a-Xylsee 4-Nitrophenyl α -D-xylopyranoside, EN03233 on page 109**PNP-b-D-Xyl**

see 4-Nitrophenyl b-D-xylopyranoside, EN03230 on page 117

Potassium p-nitrophenyl sulphate

see 4-Nitrophenyl sulfate potassium salt, EN27113 on page 127

L-Proline-AMC.HBr

see L-Proline 7-amido-4-methylcoumarin hydrobromide salt, EP16000 on page 145

L-Proline 7-amido-4-methylcoumarin hydrobromide salt

• L-Proline-AMC.HBr

[115388-93-7] C₁₅H₁₇BrN₂O 321.21

EP16000	100mg	\$100.00
	250mg	\$185.00
	500mg	\$305.00

**Propionic acid-4-methylumbelliferyl ester**

see 4-Methylumbelliferyl propionate, EM52254 on page 85

PUGNAc pentanamide

see O-(2-Deoxy-2-valeramido-D-glucopyranosylidene)amino N-phenyl carbamate, ED10996 on page 46

PUGNAc veleramide

see O-(2-Deoxy-2-valeramido-D-glucopyranosylidene)amino N-phenyl carbamate, ED10996 on page 46

PugNAc

see O-(2-Acetamido-2-deoxy-D-glucopyranosylidene)amino N-phenyl carbamate, EA06838 on page 9

Purple b-D-Gal

see 5-Iodo-3-indolyl b-D-galactopyranoside, EI03217 on page 64

L-Pyroglutamic acid-AMC

see L-Pyroglutamic acid 7-amido-4-methylcoumarin, EP16002 on page 145

L-Pyroglutamic acid 7-amido-4-methylcoumarin

• L-Pyroglutamic acid-AMC

[66642-36-2] C₁₅H₁₄N₂O₄ 286.28

EP16002	100mg	\$110.00
	250mg	\$195.00
	500mg	\$350.00

**RBB-Xylan**

see Remazol brilliant blue R D-xylan, ER32449 on page 146

Red b-D-gal

see 5-Bromo-6-chloro-3-indolyl b-D-galactopyranoside, EB06383 on page 21

Remazol brilliant blue carboxymethyl amylose

see Alphachrome, EA67590 on page 12

Remazol brilliant blue carboxymethyl cellulose

see Celluchrome, EC67137 on page 33

Remazolbrill**Remazol brilliant blue D-galacto-D-mannan**see *beta-Mannachrome*, EM66792 on page 67**Remazol brilliant blue D-galacto-D-mannan**see *beta-Mannachrome A.R.*, EM66793 on page 67**Remazol brilliant blue R D-xylan**

- RBB-Xylan
- 4-O-Methyl-D-glucurono-D-xylan-remazol brilliant blue
- 4-O-Methyl-D-glucurono-D-xylan dyed with Remazol brilliant blue R

ER32449	50mg	\$110.00
	100mg	\$180.00
	250mg	\$350.00

**Resorufin acetate**[1152-14-3] C₁₄H₉NO₄ 255.23

ER58685	10mg	\$65.00
	25mg	\$112.50
	50mg	\$185.00

**Resorufin a-D-galactopyranoside**[1175532-13-4] C₁₈H₁₇NO₈ 375.33

ER58688	5mg	\$275.00
	10mg	\$490.00
	25mg	\$1050.00

**Resorufin a-D-mannopyranoside**[125440-92-8] C₁₈H₁₇NO₈ 375.33

ER58675	5mg	\$225.00
	10mg	\$395.00
	25mg	\$795.00

**Resorufin b-D-N-acetylgalactosamine**see *Resorufin N-acetyl-b-D-galactosamine*, ER58672 on page 147**Resorufin b-D-cellobioside**

- Resorufin cellobioside

[1000404-48-7] C₂₄H₂₇NO₁₃ 537.47

ER28833	5mg	\$150.00
	10mg	\$250.00
	25mg	\$550.00

**Resorufin benzyl ether**

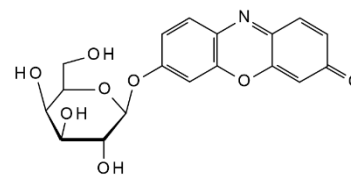
- 7-Benzyloxy-3H-phenoxazin-3-one

[87687-02-3] C₁₉H₁₃NO₃ 303.31

ER31479	1mg	\$152.30
	2mg	\$226.80
	5mg	\$451.50

**Resorufin b-D-galactopyranoside**[95079-19-9] C₁₈H₁₇NO₈ 375.33

ER04973	10mg	\$45.00
	25mg	\$100.00
	50mg	\$190.00



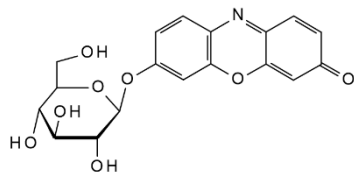
Refs: Zhang R, Ducey P, Karsenty G, J. Biol. Chem. 1997, Vol272, No1, p110-116



Resorufin b-D-glucopyranoside[101490-85-1] C₁₈H₁₇NO₈ 375.33

ER05181

10mg	\$65.00
20mg	\$100.00
50mg	\$210.00

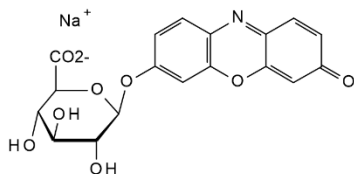


Refs: Grabowski G, Mangeli W, Gatt S, Cell Biochem. Funct. 1993, Vol11, Issue 3, p167-177; Eggertson MJ, Craig DB, Biomed. Chromatogr. 1999, 13, 516-519; Hofmann J, Sernetz M, Anal. Chim. Acta 1984, 163, 67

Resorufin b-D-glucuronide sodium salt[125440-91-7] C₁₈H₁₄NNaO₉ 411.29

ER03328

1mg	\$195.00
2mg	\$310.00
5mg	\$575.00



Refs: Wheeler MD, Yamashina S, Froh M, Rusyn I, et al, J. Leukocyte Biol. 2001, 69, 622-630

Resorufin b-D-xylobioside

ER76453

10mg	\$1500.00
25mg	\$1975.00

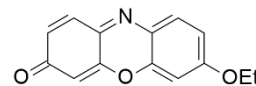
**Resorufin cellobioside**see *Resorufin b-D-cellobioside*, ER28833 on page 146**Resorufin ethyl ether**

- 7-Ethoxy-3H-phenoxazin-3-one
- 7-O-Ethoxyresorufin

[5725-91-7] C₁₄H₁₁NO₃ 241.24

ER22912

5mg	\$140.00
10mg	\$254.50
25mg	\$463.00



Refs: Donato, M.T, et al, Anal. Biochem, 213, 29 (1993); Oyekan, A.O, et al, J. Pharmacol. Exp. Ther, 268, 262 (1994)

Resorufin maltotrioseC₃₀H₄₇NO₁₈ 709.69

ER58686

5mg	\$130.00
10mg	\$250.00
25mg	\$500.00

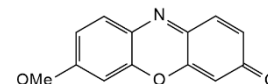
**Resorufin methyl ether**

- 7-Methoxy-3H-phenoxazin-3-one
- 7-Methoxyresorufin

[5725-89-3] C₁₃H₉NO₃ 227.22

ER11277

1mg	\$100.00
2mg	\$160.00
5mg	\$250.00

**Resorufin N-acetyl-b-D-galactosamine**

- Resorufin b-D-N-acetylgalactosamine

C₂₀H₂₀O₈N₂ 416.38

ER58672

2mg	\$50.00
5mg	\$100.00
10mg	\$170.00



ResorufinNac**Resorufin N-acetyl-b-D-glucosamine**[124762-32-9] C₂₀H₂₀N₂O₈ 416.38

ER58683

1mg	\$195.00
2mg	\$312.00
5mg	\$625.00

**Resorufin oleate**C₃₀H₃₉O₄N 477.64

ER58682

5mg	\$75.00
10mg	\$110.00
25mg	\$250.00

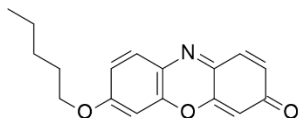
**Resorufin pentyl ether**

- 7-(Pentyloxy)-3H-phenoxazin-3-one
- 7-Pentoxyresorufin

[87687-03-4] C₁₇H₁₇NO₃ 283.32

ER26836

2mg	\$80.00
5mg	\$150.00
10mg	\$250.00



Refs: Khurana, S, et al, J. Hepatol, 49, 998 (2008); Lupp, A, et al, Anal. Bioanal. Chem, 392, 1173 (2008); Gonzalez, J, et al, Marine Environ. Res, 67, 183 (2009)

Resorufin-7-O-phosphate

- Res-Phos

C₁₂H₁₄O₆N₃P 327.23

ER58687

Price On Application

**Res-Phos**see *Resorufin-7-O-phosphate*, ER58687 on page 148**Rhamnolipid**

- Rha-(rac)C10C10 rhamnolipid
- mono-Rhamnolipid

C₂₆H₄₆O₉ 504.65

DR45784

25mg	\$125.00
50mg	\$225.00
100mg	\$400.00

**Rhapontin**see *3,3',5'-Trihydroxy-4'-methoxystilbene 3-O-b-D-glucoside*, ET07010 on page 153**Rha-(rac)C10C10 rhamnolipid**see *Rhamnolipid*, DR45784 on page 148**Rh110-2(Asp)**see *Rhodamine 110 bis-(L-aspartic acid amide) trifluoroacetic acid salt*, ER58696 on page 148**Rhodamine 110 bis-(L-aspartic acid amide) trifluoroacetic acid salt**

- Rh110-2(Asp)

[220846-63-9] C₃₂H₂₆F₆N₄O₁₃ 788.56

ER58696

5mg	\$160.00
10mg	\$295.00
25mg	\$700.00

**Rhodamine 110 bis-(N-CBZ-L-aspartyl-L-glutamyl-L-valyl-L-aspartic acid amide**

- Z-DEVD-R 110

C₂₇H₇₈N₁₀O₂₇ 974.96

ER58698

5mg	\$295.00
10mg	\$560.00
25mg	\$1325.00



Rose a-mannoside

see 6-Chloro-3-indolyl a-D-mannopyranoside, EC03270 on page 34

Rose glucoside

see 6-Chloro-3-indolyl b-D-glucopyranoside, EC03297 on page 35

Rose glucuronide CHX

see 6-Chloro-3-indolyl b-D-glucuronide cyclohexylammonium salt, EC06604 on page 35

Rose glucuronide Na

see 6-Chloro-3-indolyl b-D-glucuronide sodium salt, EC03291 on page 35

Rouge-gal

see 6-Fluoro-3-indolyl b-D-galactopyranoside, EF03290 on page 53

Salmon a-glucoside

see 6-Chloro-3-indolyl a-D-glucopyranoside, EC03263 on page 34

Salmon-butyrate

see 6-Chloro-3-indolyl butyrate, EC32007 on page 36

Salmon-cellobioside

see 6-Chloro-3-indolyl b-D-cellobioside, EC03250 on page 35

Salmon-b-D-GalNAc

see 6-Chloro-3-indolyl 2-acetamido-2-deoxy-b-D-galactopyranoside, EC03260 on page 34

Salmon Gal

see 6-Chloro-3-indolyl b-D-galactopyranoside, EC05439 on page 35

Salmon-b-D-GlcNAc

see 6-Chloro-3-indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside, EC05996 on page 34

Salmon mannoside

see 6-Chloro-1H-indol-3-yl b-D-mannopyranoside, EC15884 on page 36

Salmon-phosphate

see 6-Chloro-3-indolyl phosphate disodium salt, EC31184 on page 36

X-Sialic acid

see 5-Bromo-4-chloro-3-indolyl N-acetyl-a-D-neuraminic acid ammonium salt, EB07947 on page 25

Sodium 2,3-bis(2-methoxy-4-nitro-5-sulfophenyl)-2H-tetrazolium-5-carboxanilide inner salt

see XTT sodium salt, EX11661 on page 155

Sodium (4-methylumbelliferyl a-L-idopyranosid)uronate

see 4-Methylumbelliferyl a-L-idopyranosiduronic acid sodium salt, EM04841 on page 75

Sodium 3,3'-[1-(phenylamino)carbonyl]-3,4-tetrazolium-bis(4-methoxy-6-nitro)benzenesulfonic acid

see XTT sodium salt, EX11661 on page 155

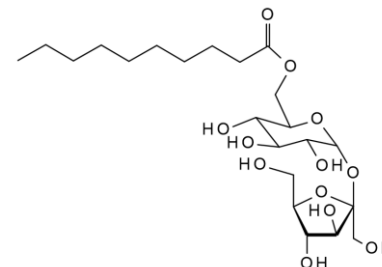
Sucrose monocaprte

- b-D-Fructofuranosyl monodecanoate a-D-glucopyranoside
- n-Decanoylsucrose
- Sucrose monodecanoate

[31835-06-0] C₂₂H₄₀O₁₂ 496.55

DS06361

500mg	\$65.00
1g	\$115.00
2g	\$210.00



Refs: Nifant'ev NE, et al, Carbohydr. Res. 1993, 250, 211; Makimo S, et al, Agric. Biol. Chem. 1983, 47, 319

Sucrose monodecanoate

see Sucrose monocaprte, DS06361 on page 149

Sucrose monolaurate

see Dodecanoyl D-sucrose, DD06810 on page 50

X-sulfate K

see 5-Bromo-4-chloro-3-indolyl sulfate potassium salt, EB09561 on page 26

X-Sulfate p-toluidine salt

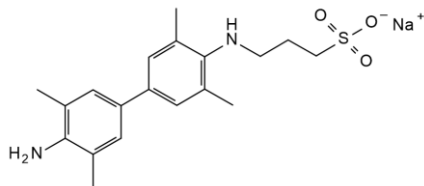
see 5-Bromo-4-chloro-3-inoxyl sulfate p-toluidine salt, EB56756 on page 27

Sulfopropylt**N-(3-Sulfopropyl)-3,3',5,5'-tetramethylbenzidine sodium salt**

- TMBZ-PS
- 4-Amino-4'-sulfopropylamino-3,3',5,5'-tetramethylbiphenyl sodium salt

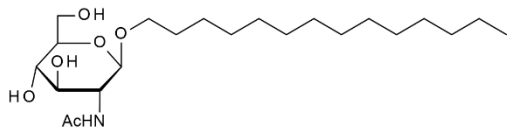
[102062-46-4][102062-36-2] C₁₉H₂₅N₂O₃S·Na 384.47

ES09345	1g	\$110.00
	2g	\$190.00
	5g	\$300.00

**TC-NBT**see *Thiocarbamyl nitro blue tetrazolium, ET31976 on page 151***Tetradecyl 2-acetamido-2-deoxy-b-D-glucopyranoside**[152914-69-7] C₂₂H₄₃NO₆ 417.58

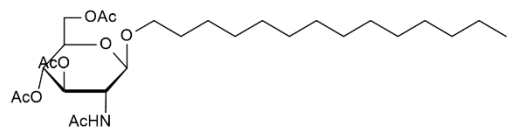
DT01867

Price On Application

**Tetradecyl 2-acetamido-2-deoxy-3,4,6-tri-O-acetyl-b-D-glucopyranoside**[173725-25-2] C₂₈H₄₉NO₉ 543.69

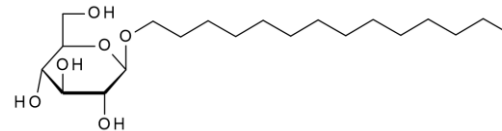
DT06619

Price On Application

**Tetradecyl b-D-glucopyranoside**C₂₀H₄₀O₆ 376.53

DT09215

200mg	\$80.00
500mg	\$150.00
1g	\$250.00

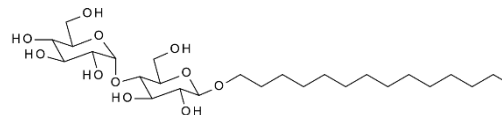
**Tetradecyl b-D-maltopyranoside**

- n-Tetradecyl-b-D-maltoside
- Tetradecyl 4-O-a-D-glucopyranosyl-b-D-glucopyranoside

[18449-82-6] C₂₆H₅₀O₁₁ 538.67

DT06373

200mg	\$80.00
500mg	\$140.00
1g	\$250.00

**Tetradecyl 4-O-a-D-glucopyranosyl-b-D-glucopyranoside**see *Tetradecyl b-D-maltopyranoside, DT06373 on page 150***n-Tetradecyl-b-D-maltoside**see *Tetradecyl b-D-maltopyranoside, DT06373 on page 150***Tetraethylene glycol monoethyl ether**[19327-39-0] C₁₆H₃₄O₅ 306.44

DT15552

1g	\$94.50
5g	\$393.80
10g	\$682.50

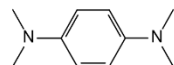


N,N,N',N'-Tetramethyl-p-phenylenediamine dihydrochloride

- Wurster's reagent
- Tmppd

[637-01-4] C₁₀H₁₆N₂·2HCl 237.17

ET04269	25g	\$75.00
	50g	\$130.00
	100g	\$210.00

HCl
HCl

Refs: Reefman D, Cornelissen JP, de Graaf RAG, Haasnoot JG, Reedijk J, Inorg. Chem. 1991, Vol30, p4928-4931

Tetranitroblue tetrazolium chloride

- 3,3'-(3,3'-Dimethoxy-4,4'-biphenylene)bis[2,5-bis(p-nitrophenyl)-2H-tetrazolium chloride]
- Tetranitrotetrazolium blue chloride

[1184-43-6] C₄₀H₂₈Cl₂N₁₂O₁₀ 907.63

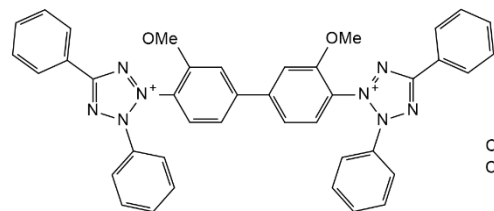
ET31974	100mg	\$84.00
	250mg	\$132.50
	500mg	\$210.00

**Tetranitrotetrazolium blue chloride**see *Tetranitroblue tetrazolium chloride*, ET31974 on page 151**Tetrazolium blue chloride**

- 3,3'-(3,3'-Dimethoxy[1,1'-biphenyl]-4,4'-diyl)-bis(2,5-diphenyl-2H-tetrazolium) dichloride
- 3,3'-Dianisole-4,4'-bis(3,5-diphenyltetrazolium chloride)

[1871-22-3] C₄₀H₃₂N₈O₂·2Cl 727.64

ET11162	5g	\$95.00
	10g	\$170.00
	25g	\$375.00

Cl⁻
Cl⁻**Tetrazolium red**see *2,3,5-Triphenyltetrazolium chloride*, ET00233 on page 153**Tetrazolium violet**

- 2,5-Diphenyl-3-(1-naphthyl)tetrazolium chloride

[1719-71-7] C₂₃H₁₇ClN₄ 384.86

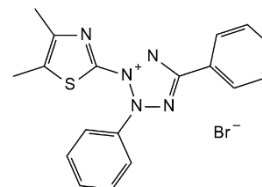
ET31973	1g	\$105.00
	2g	\$160.00
	5g	\$275.00

**TFMU-b-Gal**see *4-Trifluoromethylumbelliferyl b-D-galactopyranoside*, ET06963 on page 152**Thiazolyl blue tetrazolium bromide**

- 3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyl-2H-tetrazolium bromide

[298-93-1][2348-71-2] C₁₈H₁₆BrN₅S 414.32

ET15853	5g	\$78.80
	10g	\$136.50
	25g	\$289.00

Br⁻**Thiocarbamyl nitro blue tetrazolium**

- 2,2'-Di(p-nitrophenyl)-5,5'-di(p-thiocarbamylphenyl)-3,3'-(3,3'-dimethoxy-4,4'-biphenylene)ditetrazolium chloride
- TC-NBT

[36889-43-7] C₄₂H₃₂Cl₂N₁₂O₆S₂ 935.82

ET31976	Price On Application
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**X-thymidine-3'-phosphate CHA salt**see *5-Bromo-4-chloro-3-indolyl-D-thymidine-3'-phosphate cyclohexylammonium salt*, EB03303 on page 27

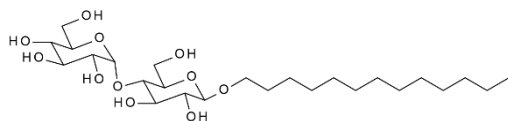
TMBZPS**TMBZ-PS**see *N*-(3-Sulfopropyl)-3,3',5,5'-tetramethylbenzidine sodium salt, ES09345 on page 150**TMPPD**see *N,N,N',N'*-Tetramethyl-*p*-phenylenediamine dihydrochloride, ET04269 on page 151**TMUX**see 4-Trifluoromethylumbelliferyl *b*-*D*-xylopyranoside, ET15891 on page 153***n*-Triadecyl-*b*-*D*-maltoside**see *Tridecyl b-D-maltopyranoside*, DT06381 on page 152**Tridecyl *b*-*D*-maltopyranoside**

- *n*-Triadecyl-*b*-*D*-maltoside
- Tridecyl 4-*O*-*a*-*D*-glucopyranosyl-*b*-*D*-glucopyranoside

[93911-12-7] C₂₅H₄₈O₁₁ 524.64

DT06381

500mg	\$125.00
1g	\$210.00
2g	\$320.00

**Tridecyl 4-*O*-*a*-*D*-glucopyranosyl-*b*-*D*-glucopyranoside**see *Tridecyl b-D-maltopyranoside*, DT06381 on page 152**Tridodecylmethylammonium chloride**

- Methyltridodecylammonium chloride

[7173-54-8] C₃₇H₇₈ClN 572.47

DT15729

1g	\$145.00
2g	\$230.00
5g	\$450.00

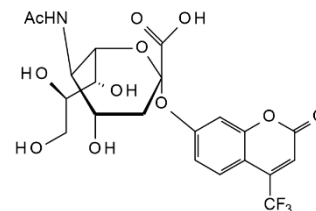
**4,4'-*O*-[2-[[4-[3-(Trifluoromethyl)-3H-diazirin-3-yl]benzoyl]amino]-1,3-propanediyl]bis-*D*-mannose**see 2-*N*-[4-(1-Azitrifluoroethyl)benzoyl]-1,3-bis-(*D*-mannos-4-yloxy)-2-propylamine, EA18115 on page 14**4-Trifluoromethylumbelliferyl *a*-*D*-*N*-acetylneuraminic acid**

- CF3MU-Neu5Ac

C₂₁H₂₂F₃NO₁₁ 521.39

ET04875

5mg	\$262.50
10mg	\$420.00
25mg	\$630.00

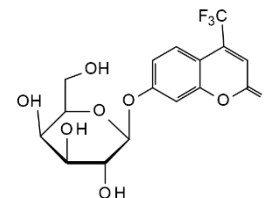
**4-Trifluoromethylumbelliferyl *b*-*D*-galactopyranoside**

- TFMU-*b*-Gal

[117153-55-6] C₁₆H₁₆F₃O₈ 392.28

ET06963

25mg	\$152.50
50mg	\$262.50
100mg	\$462.00

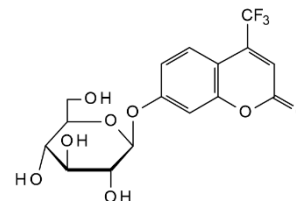


Refs: Karpova EA, Voznyi YAV, Dudukina TV, Tsvetkova IV, Biochem. Int, 1991, 24, p1136

4-Trifluoromethylumbelliferyl *b*-*D*-glucopyranoside[116981-86-3] C₁₆H₁₅F₃O₈ 392.28

ET04970

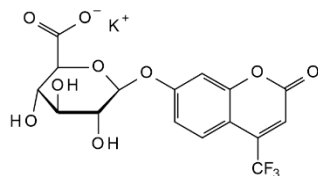
5mg	\$95.00
10mg	\$170.00
25mg	\$315.00



4-Trifluoromethylumbelliferyl b-D-glucuronide potassium salt[143547-78-8] C₁₆H₁₂F₃O₉K 444.35

ET11032

1mg	\$120.00
2mg	\$210.00
5mg	\$450.00

**4-Trifluoromethylumbelliferyl b-D-xylopyranoside**

• TMUX

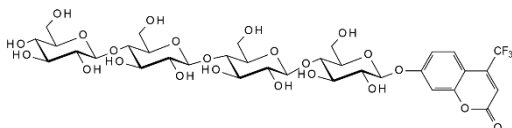
ET15891

Price On Application

**4-(Trifluoromethyl)umbelliferyl-b-D-cellobioside**[116981-93-2] C₃₄H₄₅F₃O₂₃ 878.7

ET28871

1mg	\$630.00
2mg	\$1050.00
5mg	\$1575.00

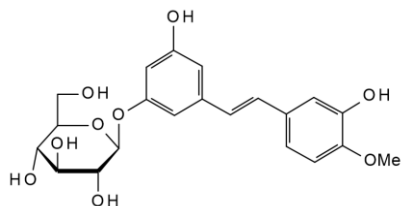
**3,3',5-Trihydroxy-4'-methoxystilbene 3-O-b-D-glucoside**

• Rhapontin

[155-58-8] C₂₁H₂₄O₉ 420.41

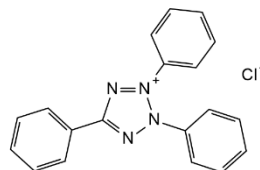
ET07010

25mg	\$65.00
50mg	\$95.00
100mg	\$160.00

**2,3,5-Triphenyltetrazolium chloride**• TTC
• Tetrazolium red[298-96-4] C₁₉H₁₅N₄·Cl 334.8

ET00233

25g	\$50.00
50g	\$85.00
100g	\$150.00

**L-Tryptophan**

• (S)-2-Amino-3-(3-indolyl)propionic acid

[73-22-3] C₁₁H₁₂N₂O₂ 204.23

ET06029

100g	\$35.00
250g	\$75.00
500g	\$125.00

**TTC**

see 2,3,5-Triphenyltetrazolium chloride, ET00233 on page 153

Undecanoyl-N-hydroxyethylglucamide

• HEGA-11

[869654-10-4] C₁₉H₃₉NO₇ 393.52

DU59726

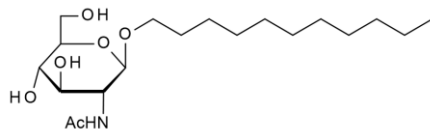
1g	\$195.00
2g	\$380.00
5g	\$800.00



Undecylaceta**Undecyl 2-acetamido-2-deoxy-b-D-glucopyranoside**[152914-68-6] C₁₉H₃₇NO₆ 375.5

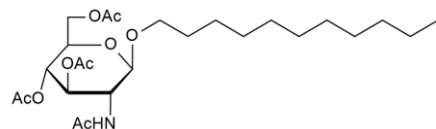
DU06620

Price On Application

**Undecyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranose**[173725-24-1] C₂₅H₄₃NO₉ 501.61

DU04114

Price On Application

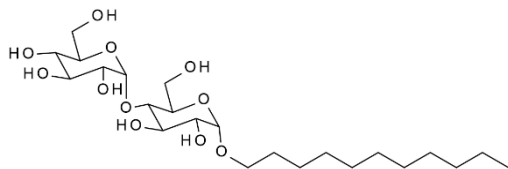
**Undecyl a-D-maltopyranoside**

• Undecyl 4-O-a-D-glucopyranosyl-a-D-glucopyranoside

[168037-13-6] C₂₃H₄₄O₁₁ 496.59

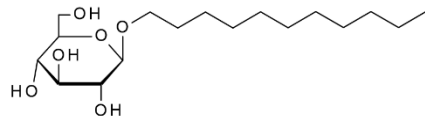
DU05104

250mg	\$75.00
500mg	\$120.00
1g	\$210.00

**Undecyl b-D-glucopyranoside**[70005-86-6] C₁₇H₃₄O₆ 334.45

DU04980

250mg	\$157.50
500mg	\$210.00
1g	\$315.00

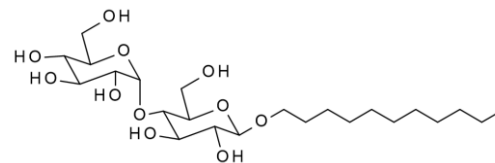
**Undecyl b-D-maltopyranoside**

• Undecyl 4-O-a-D-glucopyranosyl-b-D-glucopyranoside

[253678-67-0] C₂₃H₄₄O₁₁ 496.59

DU05738

1g	\$180.00
2g	\$300.00
5g	\$650.00

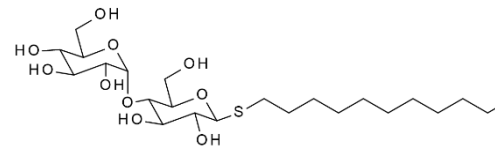


Refs: Ostermeier C, Harrenga A, Ermier U, Michel H, Proc. Natl. Acad. Sci. 1997, USA 94, 10547-10553;
Zhang H, Kurisu G, Smith JL, Cramer WA, PNAS 100 2003, No9, 5160-5163

Undecyl b-D-thiomaltopyranoside[148565-57-5] C₂₃H₄₄O₁₀S 512.66

DU06356

100mg	\$50.00
250mg	\$65.00
500mg	\$105.00

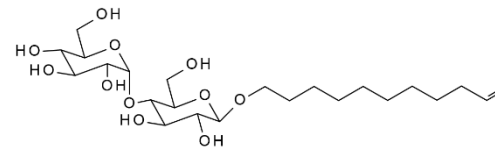


Refs: Mechref Y, Rassi ZE, J. Chromatogr. 1997, 757, 263-273

Undecylenyl b-D-maltosideC₂₃H₄₂O₁₁ 494.57

DU05117

1g	\$115.50
2g	\$210.00
5g	\$420.00



Refs: Ostermeier C, Harrenga A, Ermier U, Michel H, Proc. Natl. Acad. Sci. 1997, USA 94, 10547-10553

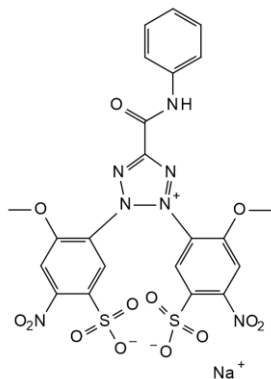
Undecyl 4-O-a-D-glucopyranosyl-a-D-glucopyranosidesee *Undecyl a-D-maltopyranoside*, DU05104 on page 154**Undecyl 4-O-a-D-glucopyranosyl-b-D-glucopyranoside**see *Undecyl b-D-maltopyranoside*, DU05738 on page 154**Wurster's reagent**see *N,N,N',N'-Tetramethyl-p-phenylenediamine dihydrochloride*, ET04269 on page 151

XTT sodium salt

- Sodium 2,3-bis(2-methoxy-4-nitro-5-sulphophenyl)-2H-tetrazolium-5-carboxanilide inner salt
- Sodium 3,3'-[1-(phenylamino)carbonyl]-3,4-tetrazolium-bis(4-methoxy-6-nitro)benzenesulfonic acid

[111072-31-2] C₂₂H₁₆N₇O₁₃S₂·Na 673.52

	25mg	\$60.00
EX11661	50mg	\$95.00
	100mg	\$150.00

**X-a-D-Xyloside**

see 5-Bromo-4-chloro-3-indolyl a-D-xylopyranoside, EB08271 on page 20

X-b-D-Xyloside

see 5-Bromo-4-chloro-3-indolyl b-D-xylopyranoside, EB03248 on page 23

Y-Gluc

see 3-Indolyl b-D-glucopyranoside, EI03317 on page 62

17-L-[(2'-O-β-D-Glucopyranosyl-β-D-glucopyranosyl)oxy]-cis-9-octadecenoic acidsee *Acidic Sophorolipids non-acetylated*, DA71484 on page 11**17-L-[(2'-O-β-D-Glucopyranosyl-β-D-glucopyranosyl)oxy]-cis-9-octadecenoic acid (6',6"-diacetate)**see *Acidic Sophorolipids mix-acetylated - mixture of C30H54O13, C32H56O14 and C34H58O15*, DA71487 on page 11**17-L-[(2'-O-β-D-Glucopyranosyl-β-D-glucopyranosyl)oxy]-cis-9-octadecenoic acid 1',4"-lactone 6',6"-diacetate**see *Lactonic (di-acetylated) Sophorolipids*, DL71483 on page 65

X

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.¹ 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)² in a β -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 α -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.³ 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)⁴

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.⁵

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).⁶ Similar antimicrobial effects of HMO have also been demonstrated for calicivirus diarrhoea and infections with heat stable enterotoxin of *E. coli*.⁷

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.⁸

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^x, 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.⁹

Fractions of HMO are also known to inhibit the binding of both Galectins which bind β -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.^{10,11}

References:

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C ₁₃ H ₂₆ O ₆	Heptyl b-D-glucopyranoside	58		4-Nitrophenyl 2-acetamido-2-deoxy-a-D-glucopyranoside	102
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C ₁₄ H ₁₃ BrClNO ₇	5-Bromo-4-chloro-1H-indol-3-yl-b-D-glucuronide	24		2-Nitrophenyl caprylate	118
	5-Bromo-6-chloro-3-indolyl b-D-glucuronide	22	C ₁₄ H ₂₀ O ₅ S	Phenylethyl b-D-thioglucofuranoside	144
C ₁₄ H ₁₃ CINNaO ₇	6-Chloro-3-indolyl b-D-glucuronide sodium salt	35		Phenylethyl b-D-thiogalactopyranoside	143
C ₁₄ H ₁₄ N ₂	3-Amino-9-ethylcarbazole	12	C ₁₄ H ₂₀ N ₂ O ₅ S	6-Methyl-2-pyridyl 2-acetamido-2-deoxy-b-D-thioglucofuranoside	70
C ₁₄ H ₁₄ O ₂	2-Naphthyl butyrate	94		Octanoyl D-glucopyranoside	136
C ₁₄ H ₁₄ ClNO ₇	6-Chloro-1H-indol-3-yl b-D-glucuronide	36	C ₁₄ H ₂₆ O ₇	Octanoyl D-glucopyranoside	136
C ₁₄ H ₁₄ NNaO ₇	3-Indolyl b-D-glucuronide sodium salt	62	C ₁₄ H ₂₇ NO ₆	Hexyl 2-acetamido-2-deoxy-b-D-glucopyranoside	59
C ₁₄ H ₁₂ BrCINNaO ₇ ·3H ₂ O	5-Bromo-4-chloro-3-indolyl b-D-glucuronide sodium salt trihydrate	22	C ₁₄ H ₂₈ O ₅ S	Octyl b-D-thioglucofuranoside	139
C ₁₄ H ₁₅ BrClNO ₅	5-Bromo-4-chloro-3-indolyl b-L-fucopyranoside	21		Octyl b-D-thiogalactopyranoside	139
	5-Bromo-4-chloro-3-indolyl b-D-fucopyranoside	20		Octyl a-D-thiomannopyranoside	138
	5-Bromo-4-chloro-3-indolyl a-L-fucopyranoside	19	C ₁₄ H ₂₈ O ₆	Octyl D-glucopyranoside	140
	5-Bromo-4-chloro-3-indolyl a-D-fucopyranoside	19		Octyl b-D-mannopyranoside	139
C ₁₄ H ₁₅ BrClNO ₆	5-Bromo-6-chloro-1H-indol-3-yl-a-D-mannopyranoside	24		Octyl b-D-glucopyranoside	138
	5-Bromo-4-chloro-3-indolyl b-D-mannopyranoside	23		Octyl b-D-galactopyranoside	138
	5-Bromo-6-chloro-3-indolyl b-D-glucopyranoside	21		Octyl a-D-mannopyranoside	138
	5-Bromo-4-chloro-3-indolyl b-D-glucopyranoside	21		Octyl a-D-glucopyranoside	138
	5-Bromo-4-chloro-3-indolyl b-D-galactopyranoside (X-Gal)	21		Octyl a-D-galactopyranoside	137
	5-Bromo-6-chloro-3-indolyl b-D-galactopyranoside	21	C ₁₄ H ₃₁ NO	N,N-Dimethyldodecylamine N-oxide	48
	5-Bromo-4-chloro-3-indolyl a-D-mannopyranoside	20	C ₁₅ H ₁₄ N ₂ O ₄	L-Pyroglutamic acid 7-amido-4-methylcoumarin	145
	5-Bromo-6-chloro-3-indolyl a-D-glucopyranoside	19	C ₁₅ H ₁₄ NNaO ₇	8-Hydroxyquinoline b-D-glucuronide sodium salt	61
	5-Bromo-4-chloro-3-indolyl a-D-glucopyranoside	19	C ₈ H ₅ BrCINO ₄ P·C ₇ H ₁₀ N	5-Bromo-6-chloro-3-indolyl phosphate p-toluidine salt	26
	5-Bromo-6-chloro-3-indolyl a-D-galactopyranoside	19		5-Bromo-4-chloro-3-indolyl phosphate p-toluidine-salt	26
	5-Bromo-4-chloro-3-indolyl a-D-galactopyranoside	19	C ₁₅ H ₁₅ BrO ₅	6-Bromo-2-naphthyl b-D-xylopyranoside	31
C ₁₄ H ₁₅ BrClNO ₉ S	5-Bromo-4-chloro-3-indolyl b-D-galactopyranoside-6-sulphate	21	C ₁₃ H ₁₄ N ₂ O ₃ ·C ₂ H ₅ FO ₂	L-Alanine-7-amido-4-methylcoumarin trifluoroacetic acid salt	12
C ₁₄ H ₁₅ BrNNaO ₅ S	5-Bromo-3-indolyl b-D-galactopyranoside-6-sulfate sodium salt	28	C ₁₅ H ₁₅ F ₃ N ₂ O ₅	D-Alanine 7-amido-4-methylcoumarin trifluoroacetate salt	12
C ₁₄ H ₁₅ INaO ₅ S	5-Iodo-3-indolyl-b-D-galactopyranoside-6-sulfate sodium salt	64		b-Alanine 7-amido-4-methylcoumarin trifluoroacetate salt	11
C ₁₄ H ₁₆ BrNO ₆	5-Bromo-3-indolyl b-D-glucopyranoside	28	C ₈ H ₆ BrNO ₄ P·C ₇ H ₁₀ N	5-Bromo-3-indolyl phosphate p-toluidine salt	29
	5-Bromo-3-indolyl b-D-galactopyranoside	28	C ₈ H ₆ ClNO ₄ P·C ₇ H ₁₀ N	6-Chloro-3-indolyl phosphate p-toluidine salt	36
	5-Bromo-3-indolyl a-D-mannopyranoside	28	C ₁₅ H ₁₆ N ₂ O ₅	gamma-L-Glutamic acid 7-amido-4-methylcoumarin	56
	5-Bromo-3-indolyl a-D-galactopyranoside	28	C ₁₅ H ₁₆ O ₇	4-Methylumbelliferyl b-D-xylopyranoside	80
C ₁₄ H ₁₆ ClNO ₆	6-Chloro-1H-indol-3-yl b-D-mannopyranoside	36		4-Methylumbelliferyl b-D-ribofuranoside	79
	6-Chloro-3-indolyl b-D-glucopyranoside	35		4-Methylumbelliferyl b-L-arabinopyranoside	76
	6-Chloro-3-indolyl b-D-galactopyranoside	35		4-Methylumbelliferyl a-D-xylopyranoside	76
	4-Chloro-3-indolyl b-D-galactopyranoside	35		4-Methylumbelliferyl a-L-arabinopyranoside	70
	6-Chloro-3-indolyl a-D-mannopyranoside	34		4-Methylumbelliferyl a-D-arabinopyranoside	70
	6-Chloro-3-indolyl a-D-glucopyranoside	34		4-Methylumbelliferyl a-L-arabinofuranoside	70
	6-Chloro-3-indolyl a-D-galactopyranoside	34	C ₁₅ H ₁₇ BrN ₂ O	L-Proline 7-amido-4-methylcoumarin hydrobromide salt	145
C ₁₄ H ₁₆ FNO ₆	6-Fluoro-3-indolyl b-D-galactopyranoside	53	C ₁₅ H ₁₇ NO ₆	8-Hydroxyquinoline b-D-glucopyranoside	61
C ₁₄ H ₁₆ INO ₆	5-Iodo-3-indolyl b-D-galactopyranoside	64		8-Hydroxyquinoline b-D-galactopyranoside	61
C ₁₄ H ₁₆ N ₂ O ₂ ·2HCl	3,3'-Dimethoxybenzidine dihydrochloride	48	C ₁₅ H ₁₇ NO ₉	2-Nitrophenyl 2,3-di-O-acetyl-b-D-xylopyranoside	118
C ₁₄ H ₁₇ NO ₅	N-Methyl-3-indolyl a-D-arabinopyranoside	69	C ₁₅ H ₁₉ N ₃ O ₇	O-(2-Acetamido-2-deoxy-D-glucopyranosylidene)amino N-phenyl carbamate	9
C ₁₄ H ₁₇ NO ₆	3-Indolyl b-D-glucopyranoside	62		4-Nitrophenyl 4,6-O-isopropylidene-a-D-galactopyranoside	123
	3-Indolyl b-D-galactopyranoside	62		4-Nitrophenyl 3,4-O-isopropylidene-a-D-galactopyranoside	123
C ₁₄ H ₁₇ ClN ₂ O ₈	2-Chloro-4-nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside	38	C ₁₅ H ₁₉ NO ₉	[2-Methoxy-4-(2-nitrovinyl)phenyl] b-D-glucopyranoside	68
C ₁₄ H ₁₇ N ₃ O ₁₀	2,4-Dinitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside	48		[2-Methoxy-4-(2-nitrovinyl)phenyl] b-D-galactopyranoside	68
C ₁₄ H ₁₇ N ₂ O ₁₇ S·K	4-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside-6-sulfate potassium salt	101			
C ₁₄ H ₁₇ N ₂ O ₁₇ S·Na	4-Nitrophenyl 2-acetamido-2-deoxy-b-D-glucopyranoside-6-sulfate sodium salt	101			

Formula	Product Name	Page	Formula	Product Name	Page
C ₁₅ H ₂₀ NO ₆ P	4-Methylumbelliferyl phosphocholine	85	C ₁₆ H ₁₈ O ₈	4-Methylumbelliferyl a-D-mannopyranoside	75
C ₁₅ H ₂₁ NO ₇	N-Methyl-3-indolyl b-D-galactopyranoside monohydrate	69	C ₁₆ H ₁₈ O ₈	4-Methylumbelliferyl a-L-idopyranoside	75
C ₁₅ H ₂₈ O ₇	Octyl D-glucuronide methyl ester	140	C ₁₆ H ₁₈ O ₈	4-Methylumbelliferyl a-D-glucopyranoside	74
C ₁₅ H ₂₉ NO ₇	Methyl 6-O-(N-heptylcarbonyl)-a-D-glucopyranoside	69	C ₁₆ H ₁₈ O ₈ xH ₂ O	4-Methylumbelliferyl a-D-galactopyranoside	74
C ₁₅ H ₃₀ O ₅ S	Nonyl b-D-thioglucofuranoside	135	C ₁₆ H ₁₈ O ₈ xH ₂ O	4-Methylumbelliferyl b-D-glucuronide hydrate	78
C ₁₅ H ₃₀ O ₆	Nonyl b-D-glucopyranoside	135	C ₁₆ H ₁₈ NO ₁₀ SNa	4-Methylumbelliferyl 2-deoxy-2-sulfamino-b-D-glucopyranoside sodium salt	81
C ₁₅ H ₃₁ NO ₆	N-Methyl-N-octanoylglucamine	70	C ₁₆ H ₁₈ NO ₁₀ SNa	4-Methylumbelliferyl 2-deoxy-2-sulfamino-a-D-glucopyranoside sodium salt	80
C ₁₆ H ₁₂ F ₃ O ₃ K	4-Trifluoromethylumbelliferyl b-D-glucuronide potassium salt	153	C ₁₆ H ₁₈ LiO ₁₁ P	4-Methylumbelliferyl myo-inositol 1-phosphate lithium salt	82
C ₁₆ H ₁₃ NO ₆	4-Nitrophenyl trans-ferulate	131	C ₁₆ H ₁₆ O ₉ ·2H ₂ O	4-Methylumbelliferyl b-D-glucuronide dihydrate (MUG)	78
C ₁₆ H ₁₄ ClN ₅	5-Cyano-2,3-di-(p-tolyl)tetrazolium chloride	42	C ₁₆ H ₁₆ O ₉ ·3H ₂ O	4-Methylumbelliferyl b-D-glucuronide trihydrate	79
C ₁₆ H ₁₄ ClF ₃ O ₈	6-Chloro-4-(trifluoromethyl)umbelliferyl b-D-galactopyranoside	41	C ₁₆ H ₁₉ BrClNO ₂	5-Bromo-6-chloro-3-indolyl caprylate	23
C ₁₆ H ₁₄ F ₂ O ₉	6,8-Difluoro-4-methylumbelliferyl b-D-glucuronide	47	C ₁₆ H ₁₉ BrN ₂ O ₆	5-Bromo-4-chloro-3-indolyl caprylate	23
C ₁₆ H ₁₄ O ₁₁	3-Carboxyumbelliferyl b-D-glucuronide	33	C ₁₆ H ₁₉ BrN ₂ O ₆	5-Bromo-3-indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside	28
C ₁₆ H ₁₄ Na ₂ O ₁₂ S	4-Methylumbelliferyl a-L-idopyranosiduronic acid 2-sulphate disodium salt	75	C ₁₆ H ₁₉ ClN ₂ O ₆	6-Chloro-3-indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside	34
C ₁₆ H ₁₅ BrO ₇	6-Bromo-2-naphthyl b-D-glucuronide	31	C ₁₆ H ₁₉ ClN ₂ O ₆	6-Chloro-3-indolyl 2-acetamido-2-deoxy-b-D-galactopyranoside	34
C ₁₆ H ₁₅ NaO ₇	2-Naphthyl b-D-glucuronide sodium salt	94	C ₁₆ H ₁₉ NO ₇	4-Methylumbelliferyl b-D-glucosaminide	78
C ₁₆ H ₁₅ NaO ₇	1-Naphthyl b-D-glucuronide sodium salt	94	C ₁₆ H ₁₉ NO ₇	4-Methylumbelliferyl a-D-glucosaminide	74
C ₁₆ H ₁₅ ClF ₂ O ₈	4-Chloromethyl-6,8-difluorumbelliferyl b-D-galactopyranoside	37	C ₁₆ H ₁₉ FN ₂ O ₁₂	2,4-Dinitrophenyl 2-deoxy-2-fluoro-b-xylobioside	49
C ₁₆ H ₁₅ F ₃ O ₉	4-Trifluoromethylumbelliferyl b-D-glucopyranoside	152	C ₁₆ H ₂₀ ClNO ₂	6-Chloro-1H-indol-3-yl octanoate	36
C ₁₆ H ₁₅ ClO ₉	6-Chloro-4-methylumbelliferyl b-D-glucuronide	37	C ₁₆ H ₂₀ N ₂ O ₆	3-Indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside	62
C ₁₆ H ₁₅ NaO ₉	4-Methylumbelliferyl a-L-idopyranosiduronic acid sodium salt	75	C ₁₆ H ₂₀ N ₂ O ₆	3-Indolyl 2-acetamido-2-deoxy-b-D-galactopyranoside	61
C ₁₆ H ₁₆ O ₇	1-Naphthyl b-D-glucuronide	94	C ₁₆ H ₁₈ O ₆ ·H ₂ O	2-Naphthyl b-D-glucopyranoside monohydrate	93
C ₁₆ H ₁₆ F ₂ O ₈	6,8-Difluoro-4-methylumbelliferyl b-D-glucopyranoside	47	C ₁₆ H ₂₀ Na ₄ O ₇	(2-Aminophthalylhydrazido) 2-acetamido-2-deoxy-b-D-glucopyranoside	13
C ₁₆ H ₁₆ F ₂ O ₈	6,8-Difluoro-4-methylumbelliferyl b-D-galactopyranoside	47	C ₁₆ H ₂₀ N ₂ O ₉	4-Nitrophenyl 2-acetamido-3-O-acetyl-2-deoxy-b-D-glucopyranoside	99
C ₁₆ H ₁₆ F ₃ O ₉	4-Trifluoromethylumbelliferyl b-D-galactopyranoside	152	C ₁₆ H ₂₁ ClN ₂ O ₃	L-Leucine 7-amido-4-methylcoumarin hydrochloride salt	65
C ₁₆ H ₁₆ O ₉	4-Methylumbelliferyl a-L-idopyranosiduronic acid	75	C ₁₆ H ₂₁ NO ₁₁	4-Nitrophenyl b-D-xylobioside	117
C ₁₆ H ₁₆ O ₁₀	3-Carboxyumbelliferyl b-D-galactopyranoside	32	C ₁₆ H ₂₁ NO ₁₁	2-Nitrophenyl b-D-xylobioside	117
C ₁₆ H ₁₇ BrO ₈	6-Bromo-2-naphthyl b-D-glucopyranoside	31	C ₁₀ H ₉ O ₆ P·2C ₆ H ₁₃ N	4-Methylumbelliferyl phosphate bis(cyclohexylammonium) salt	84
C ₁₆ H ₁₇ BrO ₈	6-Bromo-2-naphthyl b-D-galactopyranoside	31	C ₁₆ H ₂₃ NO ₄	4-Nitrophenyl decanoate	118
C ₁₆ H ₁₇ BrO ₈	6-Bromo-2-naphthyl a-D-mannopyranoside	30	C ₁₆ H ₂₃ NO ₆	Phenylethyl 2-acetamido-2-deoxy-b-D-glucopyranoside	143
C ₁₆ H ₁₇ BrO ₈	6-Bromo-2-naphthyl a-D-glucopyranoside	30	C ₁₆ H ₃₁ NO ₆	Octyl 2-acetamido-2-deoxy-b-D-glucopyranoside	137
C ₁₆ H ₁₇ BrO ₈	6-Bromo-2-naphthyl a-D-galactopyranoside	30	C ₁₆ H ₃₁ NO ₆	Octyl 2-acetamido-2-deoxy-b-D-galactopyranoside	137
C ₁₆ H ₁₇ BrO ₈	6-Bromo-2-naphthalenyl-b-D-mannopyranoside	30	C ₁₆ H ₃₁ NO ₇	Cyclohexylethanol-N-Hydroxyethylglucamide	42
C ₁₆ H ₁₇ NaO ₁₁ S	4-Methylumbelliferyl b-D-galactopyranoside-6-sulphate sodium salt	77	C ₁₆ H ₃₂ O ₈	Decyl a-L-rhamnopyranoside	44
C ₁₆ H ₁₈ O ₅	2-Naphthyl a-L-fucopyranoside	92	C ₁₆ H ₃₂ O ₅ S	Decyl b-D-thioglucofuranoside	45
C ₁₆ H ₁₈ N ₂ O ₅	gamma-L-Glutamyl-alpha-naphthylamide	56	C ₁₆ H ₃₂ O ₆	Decyl b-D-glucopyranoside	45
C ₁₆ H ₁₈ O ₆	2-Naphthyl b-D-mannopyranoside	94	C ₁₆ H ₃₃ NO ₆	N-Nonanoyl-N-methylglucamine	135
C ₁₆ H ₁₈ O ₆	1-Naphthyl b-D-mannopyranoside	94	C ₁₆ H ₃₃ NO ₇	Octanoyl-N-hydroxyethylglucamide	137
C ₁₆ H ₁₈ O ₆	1-Naphthyl b-D-glucopyranoside	93	C ₁₆ H ₃₄ O ₅	Tetraethylene glycol monoethyl ether	150
C ₁₆ H ₁₈ O ₆	2-Naphthyl b-D-galactopyranoside	93	C ₁₇ H ₁₃ ClNO ₅ P	Naphthyl AS-E phosphate	91
C ₁₆ H ₁₈ O ₆	1-Naphthyl a-D-glucopyranoside	93	C ₁₇ H ₁₇ NO ₃	Resorufin pentyl ether	148
C ₁₆ H ₁₈ O ₆	1-Naphthyl a-D-glucopyranoside	93	C ₁₇ H ₁₈ N ₂ O ₅ S ₂	D-Luciferin-6-O b-D-glucopyranoside	66
C ₁₆ H ₁₈ BrClN ₂ O ₆	5-Bromo-6-chloro-3-indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside	18	C ₁₇ H ₁₈ O ₉	D-Luciferin-6-O b-D-galactopyranoside	66
C ₁₆ H ₁₈ BrClN ₂ O ₆	5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside	18	C ₁₇ H ₁₈ O ₉	3-Acetylumbelliferyl b-D-glucopyranoside	10
C ₁₆ H ₁₈ BrClN ₂ O ₆	5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy-b-D-glucopyranoside	18	C ₁₇ H ₁₉ NO ₁₀	2-Nitrophenyl 2,3,4-tri-O-acetyl-b-D-xylopyranoside	133
C ₁₆ H ₁₈ BrClN ₂ O ₆	5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy-a-D-glucopyranoside	18	C ₁₇ H ₂₀ O ₄	4-Methylumbelliferyl heptanoate	82
C ₁₆ H ₁₈ BrClN ₂ O ₆	5-Bromo-4-chloro-3-indolyl 2-acetamido-2-deoxy-b-D-galactopyranoside	18	C ₁₇ H ₂₀ N ₃ NaO ₄ S	(+)-Biotin 4-amidobenzoic acid sodium salt	16
C ₁₆ H ₁₈ O ₇	4-Methylumbelliferyl b-L-fucopyranoside	77	C ₁₇ H ₂₁ BrClNO ₂	5-Bromo-4-chloro-3-indolyl nonanoate	25
C ₁₆ H ₁₈ O ₇	4-Methylumbelliferyl b-D-fucopyranoside	77	C ₁₇ H ₂₁ N ₂ NaO ₁₁	2-O-(4-Nitrophenyl)-a-D-N-acetylneuraminic acid sodium salt	106
C ₁₆ H ₁₈ O ₇	4-Methylumbelliferyl a-L-rhamnopyranoside	76	C ₁₇ H ₂₂ BrNO ₂	5-Bromo-3-indolyl nonanoate	29
C ₁₆ H ₁₈ O ₇	4-Methylumbelliferyl a-L-fucopyranoside	74	C ₁₇ H ₂₂ ClNO ₂	6-Chloro-3-indolyl nonanoate	37
C ₁₆ H ₁₈ O ₈	4-Methylumbelliferyl b-D-mannopyranoside	79	C ₁₇ H ₂₂ N ₂ O ₁₁	2-O-(4-Nitrophenyl)-a-D-N-acetylneuraminic acid	106
C ₁₆ H ₁₈ O ₈	4-Methylumbelliferyl b-D-glucopyranoside	78	C ₁₇ H ₂₂ N ₂ O ₁₁	2-O-(2-Nitrophenyl)-a-D-N-acetylneuraminic acid	106
C ₁₆ H ₁₈ O ₈	4-Methylumbelliferyl b-D-galactopyranoside	78	C ₁₇ H ₂₂ N ₂ O ₁₂	2-O-(4-Nitrophenyl)-a-D-N-glycolylneuraminic acid	123
C ₁₆ H ₁₈ O ₈	4-Methylumbelliferyl b-D-galactopyranoside	78	C ₁₇ H ₂₅ N ₃ O ₁₁	2-O-(4-Nitrophenyl)-a-D-N-acetylneuraminic acid ammonium salt	106

Formula	Product Name	Page	Formula	Product Name	Page
C ₁₇ H ₃₃ NO ₆	Nonyl 2-acetamido-2-deoxy-b-D-glucopyranoside	135	C ₁₈ H ₂₅ NO ₁₃	4-Nitrophenyl 6-O-(a-D-mannopyranosyl)-a-D-mannopyranoside	124
C ₁₇ H ₃₃ NO ₇	Cyclohexylpropanoyl-N-Hydroxyethylglucamide	43		4-Nitrophenyl 3-O-(a-D-mannopyranosyl)-a-D-mannopyranoside	124
C ₁₇ H ₃₄ O ₆	Undecyl b-D-glucopyranoside	154		4-Nitrophenyl 2-O-(a-D-mannopyranosyl)-a-D-mannopyranoside	124
C ₁₇ H ₃₅ NO ₆	N-Decanoyl-N-methylglucamine	44		4-Nitrophenyl 4-O-(b-D-mannopyranosyl)-b-D-glucopyranoside	124
C ₁₇ H ₃₅ NO ₇	Nonanoyl-N-Hydroxyethylglucamide	134		4-Nitrophenyl 6-O-(a-D-glucopyranosyl)-b-D-glucopyranoside	122
C ₁₈ H ₉ Na ₃ O ₁₁ S ₃	8-Acetoxypyrene-1,3,6-trisulfonic acid trisodium salt	9		4-Nitrophenyl 6-O-(a-D-glucopyranosyl)-a-D-glucopyranoside	122
C ₁₈ H ₁₃ BrNO ₆ S-K	Naphthol AS-BI sulphate potassium salt	90		4-Nitrophenyl 3-O-(b-D-glucopyranosyl)-b-D-glucopyranoside	122
C ₁₈ H ₁₄ NNaO ₉	Resorufin b-D-glucuronide sodium salt	147		4-Nitrophenyl 3-O-(b-D-glucopyranosyl)-a-D-glucopyranoside	122
C ₁₈ H ₁₅ NO ₂	Naphthol AS-D	91		4-Nitrophenyl 3-O-(a-D-glucopyranosyl)-a-D-glucopyranoside	122
C ₁₈ H ₁₅ NO ₃	Naphthol AS-OL	91		4-Nitrophenyl 2-O-(b-D-glucopyranosyl)-b-D-glucopyranoside	122
C ₁₈ H ₁₅ ClNO ₆ P	Naphthol AS-CL phosphate	90		4-Nitrophenyl 2-O-(a-D-glucopyranosyl)-a-D-glucopyranoside	121
C ₁₈ H ₁₆ BrNaS	Thiazolyl blue tetrazolium bromide	151		4-Nitrophenyl 4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside	121
C ₁₈ H ₁₇ NO ₆	Resorufin b-D-glucopyranoside	147		4-Nitrophenyl b-D-maltopyranoside	115
	Resorufin b-D-galactopyranoside	146		4-Nitrophenyl b-D-lactopyranoside	115
	Resorufin a-D-mannopyranoside	146		4-Nitrophenyl b-D-cellobioside	110
	Resorufin a-D-galactopyranoside	146		2-Nitrophenyl b-D-cellobioside	110
C ₁₈ H ₂₀ BrNO ₆	6-Bromo-2-naphthyl 2-acetamido-2-deoxy-b-D-glucopyranoside	30		4-Nitrophenyl a-D-maltopyranoside	108
C ₁₈ H ₂₀ O ₁₀	Ethyl umbelliferone-3-carboxylate-a-D-glucopyranoside	51	C ₁₈ H ₂₇ NO ₄	4-Nitrophenyl laurate	124
C ₁₈ H ₂₀ KNO ₁₁ S	4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-glucopyranoside-6-sulfate potassium salt	72		2-Nitrophenyl laurate	123
	4-Methylumbelliferyl 2-acetamido-2-deoxy-a-D-glucopyranoside-6-sulfate potassium salt	72	C ₁₈ H ₂₇ NO ₁₁	4-Aminophenyl b-D-lactopyranoside	13
	4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-galactopyranoside-6-sulfate potassium salt	71		4-Aminophenyl b-D-cellobioside	13
C ₁₈ H ₂₀ NNaO ₁₁ S	4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-glucopyranoside-6-sulfate sodium salt	72	C ₁₂ H ₁₆ NO ₁₁ P-C ₆ H ₁₃ N	2-Nitrophenyl b-D-galactopyranoside-6-phosphate cyclohexylammonium salt	113
	4-Methylumbelliferyl 2-acetamido-2-deoxy-a-D-glucopyranoside-6-sulfate sodium salt	72	C ₁₈ H ₃₁ N ₂ O ₁₀ P	4-Methylumbelliferyl phosphate di-(2-amino-2-methyl-1,3-propanediol) salt	84
	4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-galactopyranoside-4-sulfate sodium salt	71	C ₁₈ H ₃₄ O ₇	1-Oxododecyl-D-glucopyranoside	142
C ₁₈ H ₂₁ NO ₆	2-Naphthyl 2-acetamido-2-deoxy-b-D-glucopyranoside	92		1-Oxododecyl b-D-glucopyranoside	142
	1-Naphthyl 2-acetamido-2-deoxy-b-D-glucopyranoside	92		1-Oxododecyl a-D-glucopyranoside	142
	1-Naphthyl 2-acetamido-2-deoxy-b-D-galactopyranoside	92	C ₁₈ H ₃₄ O ₁₁	Hexyl b-D-maltopyranoside	60
C ₁₈ H ₂₁ NO ₈	4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-glucopyranoside	73	C ₁₈ H ₃₅ NO ₆	Decyl 2-acetamido-2-deoxy-b-D-glucopyranoside	44
	4-Methylumbelliferyl 2-acetamido-2-deoxy-a-D-glucopyranoside	72	C ₁₈ H ₃₅ NO ₇	Cyclohexylbutanoyl-N-hydroxyethylglucamide	42
	4-Methylumbelliferyl 2-acetamido-2-deoxy-b-D-galactopyranoside	72	C ₁₈ H ₃₆ O ₆	Dodecyl b-D-glucopyranoside	51
	4-Methylumbelliferyl 2-acetamido-2-deoxy-a-D-galactopyranoside	71		Dodecyl b-D-galactopyranoside	51
C ₁₈ H ₂₁ NO ₁₁	4-Nitrophenyl 2,3,4-tri-O-acetyl-a-D-glucopyranoside	132		Dodecyl a-D-glucopyranoside	50
	4-Nitrophenyl 3,4,6-tri-O-acetyl-b-D-galactopyranoside	131	C ₁₈ H ₃₇ NO ₇	Decanoyl-N-hydroxyethylglucamide	44
	2-Nitrophenyl 2,3,4-tri-O-acetyl-b-D-galactopyranoside	131	C ₁₈ H ₃₈ N ₂ O ₄ ·2HCl	N-(12-Aminododecyl)-1-deoxyxojirimycin dihydrochloride	12
C ₁₈ H ₂₂ O ₂	2-Naphthyl caprylate	94	C ₁₉ H ₁₃ ClIN ₃ O ₂	Iodonitrotetrazolium chloride	64
C ₁₈ H ₂₂ O ₄	4-Methylumbelliferyl caprylate	80	C ₁₉ H ₁₃ NO ₃	Resorufin benzyl ether	146
C ₁₈ H ₂₂ N ₂ O ₁₀	4-Nitrophenyl 2-acetamido-3,6-di-O-acetyl-2-deoxy-b-D-glucopyranoside	103	C ₁₉ H ₁₅ Na ₃ Cl	2,3,5-Triphenyltetrazolium chloride	153
C ₁₈ H ₂₃ NO ₆	4-Nitrophenyl 4,6-cyclohexylidene-b-D-mannopyranoside	118	C ₁₉ H ₁₉ NO ₈	4-Nitrophenyl 4,6-O-benzylidene-a-D-mannopyranoside	111
C ₁₈ H ₂₄ BrNO ₂	5-Bromo-3-indolyl decanoate	29		4-Nitrophenyl 4,6-O-benzylidene-b-D-glucopyranoside	111
C ₁₈ H ₂₄ ClNO ₁₃	2-Chloro-4-nitrophenyl b-D-lactoside	39		4-Nitrophenyl 4,6-benzylidene-a-D-glucopyranoside	111
	2-Chloro-4-nitrophenyl b-D-cellobioside	38	C ₁₉ H ₂₁ BrClN ₂ O ₃ ·Na	5-Bromo-4-chloro-3-indolyl N-acetyl-a-D-neuraminic acid sodium salt	25
C ₁₈ H ₂₅ NaO ₅	L-Lysine 7-amido-4-methylcoumarin acetate salt	66	C ₁₉ H ₂₁ NO ₁₂	4-Nitrophenyl 2,3,4-tri-O-acetyl-b-D-glucuronide methyl ester	132
C ₁₈ H ₂₅ N ₃ O ₇	O-(2-Deoxy-2-valeramido-D-glucopyranosylidene)amino N-phenyl carbamate	46		2-Nitrophenyl 2,3,4-tri-O-acetyl-b-D-glucuronide methyl ester	132
C ₁₈ H ₂₅ NO ₁₂	4-Nitrophenyl 2-O-(b-L-fucopyranosyl)-b-D-galactopyranoside	121	C ₁₉ H ₂₂ O ₉	3,4-Cyclohexenoesuleitin b-D-galactopyranoside	42
	4-Nitrophenyl 2-O-(a-L-fucopyranosyl)-b-D-galactopyranoside	121	C ₁₉ H ₂₂ N ₆ O ₄ ·HCl	N-Benzoyl-DL-arginine 4-nitroanilide hydrochloride	15
	4-Nitrophenyl 2-O-(a-L-fucopyranosyl)-a-D-galactopyranoside	120	C ₁₉ H ₂₅ N ₂ O ₃ S·Na	N-(3-Sulfopropyl)-3,3',5,5'-tetramethylbenzidine sodium salt	150
			C ₁₉ H ₂₂ BrClN ₂ O ₃ ·NH ₃ ·2H ₂ O	5-Bromo-4-chloro-3-indolyl N-acetyl-a-D-neuraminic acid ammonium salt	25
			C ₁₉ H ₃₇ NO ₆	Undecyl 2-acetamido-2-deoxy-b-D-glucopyranoside	154

Formula	Product Name	Page
C ₁₉ H ₃₇ NO ₇	Cyclohexylpentanoyl-N-Hydroxyethylglucamide	43
C ₁₉ H ₃₉ NO ₇	Undecanoyl-N-hydroxyethylglucamide	153
C ₂₀ H ₁₄ O ₁₁ P ₂ Na	4-Methylumbelliferyl pyrophosphate diester disodium salt	85
C ₂₀ H ₁₅ O ₅ P	Bis-(4-methylumbelliferyl)phosphate	16
C ₂₀ H ₂₀ N ₂ O ₈	Resorufin N-acetyl-b-D-glucosamine	148
C ₂₀ H ₂₀ O ₈ N ₂	Resorufin N-acetyl-b-D-galactosamine	147
C ₂₀ H ₂₂ CINO ₁₂	2-Chloro-4-nitrophenyl 2,3,4,6-tetra-O-acetyl-b-D-glucopyranoside	40
	2-Chloro-4-nitrophenyl 2,3,4,6-tetra-O-acetyl-a-D-glucopyranoside	40
C ₂₀ H ₂₃ ClO ₁₁	6-Chloro-4-methylumbelliferyl b-xylobioside	37
C ₂₀ H ₂₃ NO ₁₁ S	4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-a-D-thiomannopyranoside	130
	4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-b-D-thiogalactopyranoside	130
	4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-b-D-thiogalactopyranoside	130
C ₂₀ H ₂₃ NO ₁₂	4-Nitrophenyl 2,3,4,6-tri-O-acetyl-a-D-mannopyranoside	132
	4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-a-D-mannopyranoside	129
	4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-b-D-glucopyranoside	128
	4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-a-D-glucopyranoside	128
	4-Nitrophenyl 2,3,4,6-tetra-O-acetyl-a-D-galactopyranoside	128
	2-Nitrophenyl 2,3,4,6-tetra-O-acetyl-b-D-galactopyranoside	128
C ₂₀ H ₂₄ BrClN ₂ O ₉	5-Bromo-4-chloro-3-indolyl N-acetyl-a-D-neuraminic acid methyl ester	25
C ₂₀ H ₂₄ O ₁₁	4-Methylumbelliferyl b-D-xylobioside	80
C ₂₀ H ₂₄ N ₂ O ₁₁	4-Nitrophenyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	105
	4-Nitrophenyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-a-D-glucopyranoside	105
	2-Nitrophenyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	104
	2-Nitrophenyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-a-D-glucopyranoside	104
	2-Nitrophenyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-galactopyranoside	104
C ₂₀ H ₂₅ BrClNO ₁₁	5-Bromo-4-chloro-3-indolyl b-D-lactopyranoside	22
	5-Bromo-4-chloro-3-indolyl b-D-cellobioside	20
	5-Bromo-4-chloro-3-indolyl a-D-maltopyranoside	20
C ₁₄ H ₁₃ BrClNO ₇ ·C ₆ H ₁₃ N	5-Bromo-6-chloro-3-indolyl b-D-glucuronide cyclohexylammonium salt	22
C ₂₀ H ₂₆ CINO ₁₁	6-Chloro-3-indolyl b-D-cellobioside	35
C ₂₀ H ₂₆ N ₄ O ₁₁ P ₂	Fluorescein diphosphate tetraammonium salt	53
C ₁₄ H ₁₄ BrNO ₇ ·C ₆ H ₁₃ N	5-Bromo-3-indolyl b-D-glucuronide cyclohexylammonium salt	29
C ₁₄ H ₁₄ CINO ₇ ·C ₆ H ₁₃ N	6-Chloro-3-indolyl b-D-glucuronide cyclohexylammonium salt	35
C ₂₀ H ₂₇ NO ₁₁	3-Indolyl b-D-cellobioside	63
C ₂₀ H ₂₃ NO ₁₁ ·NH ₄	4-Methylumbelliferyl N-acetyl-a-D-neuraminic acid ammonium salt	82
C ₁₄ H ₁₅ NO ₇ ·C ₆ H ₁₃ N	3-Indolyl b-D-glucuronide cyclohexylammonium salt	62
C ₁₄ H ₁₃ BrClNO ₇ ·C ₆ H ₁₃ N·H ₂ O	5-Bromo-4-chloro-3-indolyl b-D-glucuronide cyclohexylammonium salt monohydrate	22
C ₂₀ H ₂₈ N ₂ O ₁₂	4-Nitrophenyl 2-acetamido-2-deoxy-4-O-(a-L-fucopyranosyl)-b-D-glucopyranoside	100
C ₂₀ H ₂₈ N ₂ O ₁₃	4-Nitrophenyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside	101
	4-Nitrophenyl 2-acetamido-2-deoxy-4-O-(b-D-galactopyranosyl)-a-D-glucopyranoside	101
	4-Nitrophenyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-glucopyranoside	101
	4-Nitrophenyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside	101
	4-Nitrophenyl 2-acetamido-2-deoxy-3-O-(a-D-galactopyranosyl)-a-D-galactopyranoside	100
C ₂₀ H ₃₁ NO ₄	4-Nitrophenyl myristate	125

Formula	Product Name	Page
C ₂₀ H ₃₃ NO ₉	Hexyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	59
C ₂₀ H ₃₈ O ₁₀ S	Octyl b-D-thiomaltopyranoside	139
C ₂₀ H ₃₈ O ₁₁	Octyl 4-O-(b-D-galactopyranosyl)-b-D-glucopyranoside	140
	n-Octyl b-D-maltoside	139
C ₂₀ H ₃₉ NO ₆	Dodecyl 2-acetamido-2-deoxy-b-D-glucopyranoside	50
C ₂₀ H ₄₀ O ₆	Tetradecyl b-D-glucopyranoside	150
C ₂₁ H ₁₆ N ₄ O ₈ S ₂	Nitrocefin	96
C ₂₁ H ₁₉ NO ₃	Naphthol AS-MX acetate	91
C ₂₁ H ₁₉ F ₃ N ₂ O ₅	L-Phenylalanine 7-amido-4-methylcoumarin trifluoroacetate salt	143
C ₂₁ H ₁₉ N ₃ O ₇ S ₂	DL-Luciferin 1-(4,5-dimethoxy-2-nitrophenyl)ethyl ester	66
C ₂₁ H ₂₁ Cl ₂ NO ₇	[9H-1,3-Dichloro-9,9-dimethylacridin-2-one-7-yl] b-D-galactopyranoside	46
C ₂₁ H ₂₁ NO ₁₀	4-Nitrophenyl 5-O-trans-feruloyl-a-L-arabinofuranoside	120
	4-Nitrophenyl 2-O-trans-feruloyl-a-L-arabinofuranoside	120
C ₂₁ H ₂₂ N ₂ O ₈	4-Nitrophenyl 2-acetamido-2-deoxy-4,6-O-benzylidene-b-D-glucopyranoside	99
C ₂₁ H ₂₂ F ₃ NO ₁₁	4-Trifluoromethylumbelliferyl a-D-N-acetylneuraminic acid	152
C ₂₁ H ₂₃ N ₃ O ₉	4-Azidophlorizin	14
C ₂₁ H ₂₄ O ₉	3,3',5-Trihydroxy-4'-methoxystilbene 3-O-b-D-glucoside	153
C ₂₁ H ₂₄ NaO ₁₁	4-Methylumbelliferyl N-acetyl-a-D-neuraminic acid sodium salt	83
	4-Methylumbelliferyl 3-deoxy-D-glycero-a-D-galacto-2-nonulosonic acid sodium salt	80
C ₂₁ H ₂₅ NO ₁₂	2'-(4-Methylumbelliferyl)-a-D-N-glycolylneuraminic acid	82
13C ₆ C ₁₅ H ₂₇ NO ₉	Benzyl [13C ₆] 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-a-D-galactopyranoside	15
C ₂₁ H ₂₉ NO ₁₅	4-Nitrophenyl b-D-xylotrioside	117
C ₂₁ H ₃₁ NO ₉ Si	2-Nitrophenyl 2,3-di-O-acetyl-4-O-triethylsilyl-b-D-xylopyranoside	118
C ₂₁ H ₃₅ NO ₉	Heptyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	57
C ₂₁ H ₄₀ O ₁₁ S	Nonyl b-D-thiomaltopyranoside	135
C ₂₁ H ₄₀ O ₁₁	Nonyl b-D-maltopyranoside	135
	2,6-Dimethyl-4-heptyl-b-D-maltopyranoside	48
C ₂₂ H ₁₆ N ₇ O ₁₃ S ₂ ·Na	XTT sodium salt	155
C ₂₂ H ₂₁ Cl ₂ N ₃ O ₇	2-(5'-Chloro-2'-hydroxyphenyl)-6-chloro-4(3H)-quinazolinonyl a-D-N-acetylgalactosamine	33
C ₂₂ H ₂₃ NO ₉	4-Nitrophenyl 6-O-benzoyl-3,4-O-isopropylidene-a-D-galactopyranoside	111
C ₂₂ H ₂₃ N ₃ O ₁₀	4-Methylumbelliferyl 3,4,6-tri-O-acetyl-2-azido-2-deoxy-a-D-galactopyranoside	86
C ₂₂ H ₂₄ N ₂ O ₉	4-Nitrophenyl 2-acetamido-2-deoxy-4,6-O-p-methoxybenzylidene-a-D-galactopyranoside	103
C ₂₂ H ₂₄ O ₁₁	4-Methylumbelliferyl 3,4,6-tri-O-acetyl-b-D-galactopyranoside	86
C ₂₂ H ₂₅ N ₃ O ₁₁ S ₂	D-Luciferin-6-O-N-acetylneuraminic acid	66
C ₂₂ H ₂₈ O ₁₂	4-Methylumbelliferyl 4-O-(a-L-fucopyranosyl)-b-D-galactopyranoside	82
	4-Methylumbelliferyl 3-O-(a-L-fucopyranosyl)-b-D-galactopyranoside	81
	4-Methylumbelliferyl 2-O-(a-L-fucopyranosyl)-b-D-galactopyranoside	81
C ₂₂ H ₂₈ O ₁₃	4-Methylumbelliferyl b-D-lactoside	79
	4-Methylumbelliferyl b-D-cellobioside	76
C ₁₆ H ₁₆ O ₉ ·C ₆ H ₁₃ N	4-Methylumbelliferyl a-L-idopyranosiduronic acid cyclohexylammonium salt	75
C ₂₂ H ₃₁ BrClNO ₂	5-Bromo-4-chloro-3-indolyl myristate	24
C ₂₂ H ₃₁ N ₃ O ₁₃	4-Nitrophenyl N,N-diacetyl-b-D-chitobioside	125
	4-Nitrophenyl 2-acetamido-6-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside	98
	4-Nitrophenyl 2-acetamido-4-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside	97

Formula	Product Name	Page	Formula	Product Name	Page
C ₂₂ H ₃₁ N ₃ O ₁₃	4-Nitrophenyl 2-acetamido-3-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside	97	C ₂₄ H ₃₂ F ₃ N ₃ O ₁₃	2-N-[4-(1-Azitrifluoroethyl)benzoyl]-1,3-bis-(D-mannos-4-yloxy)-2-propylamine	14
C ₂₂ H ₃₅ NO ₄	4-Nitrophenyl palmitate	126	C ₂₄ H ₃₄ ClNO ₁₈	2-Chloro-4-nitrophenyl 4-O-b-D-galactopyranosylmaltoside	40
C ₂₂ H ₃₆ O ₉ S	Octyl 2,3,4,6-tetra-O-acetyl-b-D-thioglucofuranoside	141		2-Chloro-4-nitrophenyl b-D-maltotriose	39
C ₂₂ H ₃₆ O ₁₀	Octyl 2,3,4,6-tetra-O-acetyl-b-D-mannopyranoside	141		2-Chloro-4-nitrophenyl a-D-maltotriose	38
	Octyl 2,3,4,6-tetra-O-acetyl-b-D-glucopyranoside	141	C ₂₄ H ₃₅ BrClNO ₂	5-Bromo-6-chloro-3-indolyl palmitate	25
C ₂₂ H ₃₇ NO ₉	Octyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	137		5-Bromo-4-chloro-3-indolyl palmitate	25
C ₂₂ H ₄₀ O ₁₂	Sucrose monocaprate	149	C ₂₄ H ₃₅ NO ₁₈	4-Nitrophenyl-b-D-maltotriose	124
C ₂₂ H ₄₁ NO ₁₁	Octyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-b-D-glucopyranoside	137		4-Nitrophenyl 3,6-di-O-(a-D-mannopyranosyl)-b-D-mannopyranoside	119
	Octyl 2-acetamido-2-deoxy-3-O-(b-D-galactopyranosyl)-a-D-glucopyranoside	137		4-Nitrophenyl 2,3-di-O-(b-D-glucopyranosyl)-b-D-glucopyranoside	119
C ₂₂ H ₄₂ O ₁₀ S	Decyl b-D-thiomaltopyranoside	45		4-Nitrophenyl b-laminaritrinose	115
C ₂₂ H ₄₂ O ₁₁	Decyl b-D-maltopyranoside	45		4-Nitrophenyl b-D-cellobioside	111
	Decyl a-D-maltopyranoside	44	C ₂₄ H ₃₅ ClNO ₁₈	2-Chloro-4-nitrophenyl b-D-cellobioside	39
C ₂₂ H ₄₃ NO ₆	Tetradecyl 2-acetamido-2-deoxy-b-D-glucopyranoside	150	C ₂₄ H ₃₆ ClNO ₂	6-Chloro-1H-indol-3-yl hexadecanoate	36
C ₂₂ H ₄₄ O ₆	Hexadecyl b-D-glucopyranoside	59	C ₂₄ H ₄₁ NO ₉	Decyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	44
C ₂₃ H ₁₇ ClN ₄	Tetrazolium violet	151		6-Cyclohexylhexyl b-D-maltoside	43
C ₂₃ H ₂₂ O ₈	4-Methylumbelliferyl 4,6-O-benzylidene-b-D-galactopyranoside	77	C ₂₄ H ₄₄ O ₁₁	Dodecanoyl D-sucrose	50
C ₂₃ H ₂₄ N ₂ O ₉	4-Nitrophenyl 2-acetamido-3-O-acetyl-4,6-O-benzylidene-2-deoxy-a-D-glucopyranoside	98	C ₂₄ H ₄₆ O ₁₀ S	Dodecyl b-D-thiomaltopyranoside	51
C ₂₃ H ₃₁ ClN ₆ O ₇	Glutaryl-glycyl-L-arginine 7-amido-4-methylcoumarin hydrochloride	56	C ₂₄ H ₄₆ O ₁₁	Dodecyl b-D-maltopyranoside	51
C ₂₃ H ₃₆ N ₂ O ₈	2-(N-Octylcarboamido)phenyl-2-acetamido-2-deoxy-b-D-glucopyranoside	139		Dodecyl b-D-cellobioside	50
C ₂₃ H ₃₉ NO ₉	Nonyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	135		Dodecyl a-D-maltopyranoside	50
C ₂₃ H ₄₂ O ₁₁	Undecylenyl b-D-maltoside	154	C ₂₄ H ₄₇ NO ₆	Hexadecyl 2-acetamido-2-deoxy-b-D-glucopyranoside	58
C ₂₃ H ₄₄ O ₁₀ S	Undecyl b-D-thiomaltopyranoside	154	C ₂₅ H ₂₁ Cl ₂ O ₁₀ S·Na	Chlorophenol red-b-D-galactopyranoside sodium salt	41
C ₂₃ H ₄₄ O ₁₁	Undecyl b-D-maltopyranoside	154	C ₂₅ H ₂₂ Cl ₂ O ₁₀ S	Chlorophenol red b-D-galactopyranoside	40
	Undecyl a-D-maltopyranoside	154	C ₂₅ H ₃₂ N ₄ O ₇	N-a-Boc-N-epsilon-cbz-L-lysine 4-nitroanilide	17
C ₂₄ H ₁₆ O ₇	Fluorescein diacetate	52	C ₂₅ H ₃₂ O ₁₅	4-Methylumbelliferyl-b-D-xylofuranoside	87
C ₂₄ H ₂₂ BrNO ₉	Naphthol AS-BI b-D-glucuronide	90	C ₂₅ H ₄₃ NO ₉	Undecyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	154
C ₂₄ H ₂₄ BrNO ₈	Naphthol AS-BI b-D-glucopyranoside	90	C ₂₅ H ₄₆ O ₁₁	7-Cyclohexylheptyl b-D-maltoside	42
	Naphthol AS-BI b-D-galactopyranoside	89	C ₂₅ H ₄₈ O ₁₁	Tridecyl b-D-maltopyranoside	152
C ₂₄ H ₂₄ F ₃ NO ₁₁	4-Methylumbelliferyl 3,4,6-tri-O-acetyl-2-deoxy-2-trifluoroacetamido-b-D-glucopyranoside	86	C ₂₅ H ₄₉ NO ₆	Heptadecyl 2-acetamido-2-deoxy-b-D-glucopyranoside	57
	4-Methylumbelliferyl 3,4,6-tri-O-acetyl-2-deoxy-2-trifluoroacetamido-a-D-glucopyranoside	86	C ₂₆ H ₂₁ N ₃ O ₃	Coelenterazine	41
C ₂₄ H ₂₆ O ₁₀	2-Naphthyl 2,3,4,6-tetra-O-acetyl-b-D-glucopyranoside	95	C ₂₆ H ₂₁ O ₁₀ ·Na	Phenolphthalein b-D-glucuronide sodium salt monohydrate	143
C ₂₄ H ₂₆ O ₁₁ S	4-Methylumbelliferyl 6-deoxy-2,3,4,6-tetra-O-acetyl-6-thio-b-D-glucopyranoside	81	C ₂₆ H ₂₂ O ₁₀	Fluorescein mono-b-D-galactopyranoside	53
C ₂₄ H ₂₆ O ₁₂	4-Methylumbelliferyl 2,3,4,6-tetra-O-acetyl-a-D-glucopyranoside	85	C ₂₆ H ₂₃ NO ₁₀	4-Nitrophenyl 2,6-di-O-benzoyl-a-D-galactopyranoside	119
C ₂₄ H ₂₇ NO ₉	2-Naphthyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	92	C ₂₆ H ₂₇ BrN ₂ O ₈	Naphthol AS-BI N-acetyl-b-D-glucosaminide	90
	1-Naphthyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	92		Naphthol AS-BI N-acetyl-b-D-galactosaminide	90
C ₂₄ H ₂₇ NO ₁₁	4-Methylumbelliferyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	73	C ₂₆ H ₂₉ NO ₃	Naphthol AS nonanoate	91
	4-Methylumbelliferyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-a-D-glucopyranoside	73	C ₂₆ H ₃₁ NO ₁₆	2-Nitrophenyl 2,2',3',4'-penta-O-acetyl-b-D-xylofuranoside	126
	4-Methylumbelliferyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-galactopyranoside	73	C ₂₆ H ₃₃ NO ₁₇	4-Nitrophenyl 2-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-a-D-mannopyranoside	130
C ₂₄ H ₂₇ NO ₁₃	Resorufin b-D-cellobioside	146		4-Nitrophenyl 3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranoside	129
C ₂₄ H ₃₁ NO ₃	2-Dodecylresorufin	51		4-Nitrophenyl 2-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranoside	129
C ₁₈ H ₁₇ BrClN ₃ O ₅ ·P ₆ H ₁₄ N	5-Bromo-4-chloro-3-indolyl-D-thymidine-3'-phosphate cyclohexylammonium salt	27	C ₂₆ H ₃₄ N ₂ O ₁₂	4-Methylumbelliferyl 4-deoxychitobiose	80
C ₂₄ H ₃₁ NO ₁₂	4-Methylumbelliferyl 2-acetamido-2-deoxy-4-O-(a-L-fucopyranosyl)-b-D-glucopyranoside	71	C ₂₆ H ₃₄ N ₂ O ₁₃	4-Methylumbelliferyl N,N-diacetyl-b-D-chitobioside	83
	4-Methylumbelliferyl 2-acetamido-2-deoxy-3-O-(a-L-fucopyranosyl)-b-D-glucopyranoside	71	C ₂₆ H ₃₅ BrClNO ₁₆	5-Bromo-4-chloro-3-indolyl a-D-maltotriose	20
C ₂₄ H ₃₁ NO ₁₃	4-Methylumbelliferyl 2-acetamido-3-O-(b-D-galactopyranosyl)-a-D-galactopyranoside	73	C ₂₆ H ₃₇ NO ₁₆	3-Indolyl b-D-cellobioside	62
C ₂₄ H ₃₁ NO ₁₆	4-Nitrophenyl 2,3,4-tri-O-acetyl-6-O-(a-D-glucopyranosyl)-a-D-glucopyranoside	132	C ₂₆ H ₃₈ O ₄	4-Methylumbelliferyl palmitate	84
			C ₂₆ H ₃₈ N ₂ O ₁₇	4-Nitrophenyl 2-acetamido-3-O-[2-O-a-L-fucopyranosyl-b-D-galactopyranosyl]-2-deoxy-b-D-galactopyranoside	104
				4-Nitrophenyl 2-acetamido-3-O-(2-O-a-L-fucopyranosyl-b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranoside	104
				4-Nitrophenyl 2-acetamido-2-deoxy-4-O-[2-O-(a-L-fucopyranosyl)-b-D-galactopyranosyl]-b-D-glucopyranoside	99
				4-Nitrophenyl 2-acetamido-2-deoxy-3-O-[2-O-(a-L-fucopyranosyl)-b-D-galactopyranosyl]-b-D-glucopyranoside	99
			C ₂₆ H ₃₉ NO ₄	6-Hexadecanoylamino-4-methylumbelliferone	58

Formula	Product Name	Page
C ₂₆ H ₄₅ NO ₉	Dodecyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	50
C ₂₆ H ₄₆ O ₉	Rhamnolipid	148
C ₂₆ H ₄₆ O ₁₆	Octyl 3,6-di-O-(a-D-mannopyranosyl)-b-D-mannopyranoside	140
C ₂₆ H ₅₀ O ₁₁	Tetradecyl b-D-maltopyranoside	150
C ₂₆ H ₅₁ NO ₆	Octyldecyl 2-acetamido-2-deoxy-b-D-glucopyranoside	140
C ₂₇ H ₂₄ O ₁₂	Monofluoresceinated mannitol	87
C ₂₇ H ₂₆ O ₉	6-(b-D-Galactopyranosyloxy)-9-(4-methoxy-2-methylphenyl)-3H-xanthen-3-one	54
	6'-(Diethylamino)spiro[sobenzofuran-1(3H),9'-[9H]xanthen]-3'-yl b-D-glucopyranoside	46
C ₂₇ H ₃₃ NO ₁₄	4-Nitrophenyl 2,3,4-tri-O-levulinoyl-a-D-mannopyranoside	133
C ₂₇ H ₅₀ N ₃ O ₆ P	2-(N-Hexadecanoylamino)-4-nitrophenylphosphocholine hydroxide	58
C ₂₇ H ₅₂ O ₁₂	Octyl glucose neopentyl glycol	140
C ₂₇ H ₇₈ N ₁₀ O ₂₇	Rhodamine 110 bis-(N-CBZ-L-aspartyl-L-glutamyl-L-valyl-L-aspartic acid amide)	148
C ₂₈ H ₂₄ O ₇	Fluorescein dibutylate	52
C ₂₈ H ₂₆ N ₂ O ₁₀	4-Nitrophenyl 2-acetamido-2-deoxy-3,6-di-O-benzoyl-b-D-galactopyranoside	99
C ₂₈ H ₃₈ N ₂ O ₁₇	4-Nitrophenyl 2-acetamido-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranoside	104
C ₂₈ H ₃₇ NO ₁₀	4-Methylumbelliferyl 2-acetamido-2-deoxy-3,6-di-O-pivaloyl-b-D-galactopyranoside	71
C ₂₈ H ₃₈ O ₁₆	b-Naphthyl-b-maltotriose	95
C ₂₈ H ₃₈ O ₁₈	4-Methylumbelliferyl b-D-gentiotriose	78
	4-Methylumbelliferyl b-D-cellobiotriose	77
C ₂₈ H ₄₀ O ₄	4-Methylumbelliferyl oleate	84
	4-Methylumbelliferyl elaidate	81
C ₂₈ H ₄₁ N ₃ O ₁₈	4-Nitrophenyl 2-acetamido-6-O-(2-acetamido-2-deoxy-b-D-glucopyranosyl)-3-O-(b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranoside	98
C ₂₈ H ₄₂ O ₂	beta-Naphthyl stearate	95
C ₂₈ H ₄₉ NO ₉	Tetradecyl 2-acetamido-2-deoxy-3,4,6-tri-O-acetyl-b-D-glucopyranoside	150
C ₂₈ H ₅₄ O ₁₁	Hexadecyl b-D-maltopyranoside	59
C ₂₉ H ₄₂ N ₂ O ₁₁	2-(N-Octylcarboamido)phenyl-2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	139
C ₂₉ H ₄₂ N ₂ O ₂₁	4-Nitrophenyl O-(N-acetyl-a-neuraminosyl)-(2-3)-b-D-galactopyranosyl-(1-4)-b-D-glucopyranoside	126
C ₂₉ H ₄₄ BF ₂ N ₃ O ₁₂	3-(4,4-Difluoro-5,7-dimethyl-4-bora-3a,4a-diazas-indacene-3-propionamido)propyl b-D-lactoside	47
C ₃₀ H ₂₅ Cl ₂ NO ₁₂	6'-(O-(Carboxymethyl))-2',7'-dichlorofluorescein 3'-(O-(N-acetyl-b-D-glucosamide))	32
C ₃₀ H ₃₃ NO ₈	6'-(Diethylamino)spiro[sobenzofuran-1(3H),9'-[9H]xanthen]-3'-yl b-D-galactopyranoside	46
C ₃₀ H ₃₅ NO ₁₅	4-Methylumbelliferyl N-acetyl-4,7,8,9-tetra-O-acetyl-a-D-neuraminic acid methyl ester	83
C ₃₀ H ₃₉ O ₄ N	Resorufin oleate	148
C ₃₀ H ₄₄ N ₄ O ₁₈	4-Nitrophenyl N,N',N''-triacetyl-b-D-chitotriose	125
C ₃₀ H ₄₅ NO ₂₃	4-Nitrophenyl 3,4,6-tri-O-(a-D-mannopyranosyl)-b-D-mannopyranoside	134
	4-Nitrophenyl b-D-cellobiotetraose	111
	4-Nitrophenyl a-D-maltotetraose	108
C ₃₀ H ₄₅ ClNO ₂₃	2-Chloro-4-nitrophenyl-b-D-cellobiotetraose	40
C ₃₀ H ₄₇ NO ₁₈	Resorufin maltotriose	147
C ₃₀ H ₅₃ NO ₉	Hexadecyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	59
C ₃₀ H ₅₄ O ₁₃	Acidic Sphorolipids non-acetylated	11
C ₃₁ H ₂₉ NO ₈	4-Nitrophenyl 6-O-trityl-a-D-glucopyranoside	134
	2-Nitrophenyl 6-O-trityl-b-D-galactopyranoside	134
C ₃₁ H ₃₅ N ₂ NaO ₁₁	Novobiocin sodium salt	135
C ₃₁ H ₃₅ NO ₁₆	4-Nitrophenyl 2-O-(2,3,4-tri-O-acetyl-b-L-fucopyranosyl)-6-O-benzoyl-a-D-galactopyranoside	131
C ₃₁ H ₄₅ N ₃ O ₂₁	4-Nitrophenyl O-(N-acetyl-a-neuraminosyl)-(2-6)-b-D-galactopyranosyl-(1-4)-2-acetamido-2-deoxy-b-D-glucopyranoside	126

Formula	Product Name	Page
C ₃₁ H ₄₅ N ₃ O ₂₁	4-Nitrophenyl O-(N-acetyl-a-neuraminosyl)-(2-3)-b-D-galactopyranosyl-(1-4)-2-acetamido-2-deoxy-b-D-glucopyranoside	126
	4-Nitrophenyl (N-acetyl-a-neuraminosyl)-(2→3)-O-b-D-galactopyranosyl-(1→3)-2-acetamido-2-deoxy-b-D-galactopyranoside	97
	4-Nitrophenyl (N-acetyl-a-neuraminosyl)-(2→3)-O-b-D-galactopyranosyl-(1→3)-2-acetamido-2-deoxy-a-D-galactopyranoside	97
	Neu5Ac(a2-6)Gal(b1-3)GlcNAc-b-pNP	96
C ₃₁ H ₅₁ N ₂ O ₇ P	6-Hexadecanoylamino-4-methylumbelliferyl phosphorylcholine	58
C ₃₁ H ₅₅ NO ₉	Heptadecyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	57
C ₃₁ H ₆₀ O ₁₂	Lauryl glucose neopentyl glycol	65
C ₃₂ H ₂₄ N ₂ O ₁₂	2,4-Dinitrophenyl b-L-arabinofuranoside	48
C ₃₂ H ₂₆ F ₆ N ₄ O ₁₃	Rhodamine 110 bis-(L-aspartic acid amide) trifluoroacetic acid salt	148
C ₃₂ H ₃₂ O ₁₅	Fluorescein di-b-D-glucopyranoside	52
	Fluorescein di-b-D-galactopyranoside	52
C ₃₂ H ₃₈ NO ₁₅ S	4-Nitrophenyl 4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2,3,6-tri-O-acetyl-b-D-thioglucofuranoside	128
C ₃₂ H ₃₈ NO ₂₀	4-Nitrophenyl 2,4,6-tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranoside	133
	4-Nitrophenyl 2,4,6-tri-O-acetyl-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-a-D-glucopyranoside	133
	4-Nitrophenyl hepta-O-acetyl-b-lactoside	123
	4-Nitrophenyl b-D-cellobioside heptacetate	110
	4-Nitrophenyl b-D-cellobioside heptaacetate	110
	2-Nitrophenyl b-D-cellobioside heptaacetate	109
C ₃₂ H ₄₀ N ₂ O ₁₉	4-Nitrophenyl 2-acetamido-3,6-di-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-b-D-glucopyranoside	103
C ₃₂ H ₄₁ NO ₁₇	4-Nitrophenyl 3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-4,6-O-cyclohexylidene-b-D-mannopyranoside	129
C ₃₂ H ₄₁ N ₃ O ₁₈	4-Nitrophenyl 2-acetamido-3-O-(2-acetamido-3,4,6-tri-O-acetyl-b-D-glucopyranosyl)-4,6-di-O-acetyl-2-deoxy-a-D-galactopyranoside	98
	4-Nitrophenyl 2-acetamido-4-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)-3,6-di-O-acetyl-2-deoxy-b-D-glucopyranoside	98
C ₃₂ H ₄₅ BrClNO ₂₁	5-Bromo-4-chloro-1H-indol-3-yl-b-D-cellobiotetraose	23
C ₃₂ H ₄₇ NO ₂₁	3-Indolyl b-D-cellobiotetraose	62
C ₃₂ H ₄₈ O ₈ S	4-Methylumbelliferyl 6-thio-palmitate-b-D-glucopyranoside	85
C ₃₂ H ₄₈ N ₂ O ₂₃	4-Nitrophenyl lacto-N-tetraoside	123
	4-Nitrophenyl b-lacto-N-neotetraoside	115
	4-Nitrophenyl b-globo-N-tetraoside	114
C ₃₂ H ₄₉ NO ₉	6-Hexadecanoylamino-4-methylumbelliferyl b-D-galactopyranoside	58
C ₃₂ H ₅₇ NO ₉	Octadecyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranoside	136
C ₃₂ H ₆₂ O ₁₁ S	Octadecylthioethyl 4-O-(a-D-galactopyranosyl)-b-D-galactopyranoside	136
C ₃₃ H ₃₂ N ₂ O ₈	4-Nitrophenyl 2-acetamido-2-deoxy-6-O-trityl-b-D-glucopyranoside	103
C ₃₃ H ₃₃ NO ₁₀	4-Nitrophenyl 6-O-DMT-a-D-mannopyranoside	120
	2-Nitrophenyl 6-O-DMT-b-D-galactopyranoside	119
C ₃₃ H ₃₇ NO ₁₇	4-Nitrophenyl 2-O-(2,3,4,6-tri-O-acetyl-a-D-mannopyranosyl)-4,6-O-benzylidene-a-D-mannopyranoside	132
	4-Nitrophenyl 2-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-4,6-O-benzylidene-b-D-glucopyranoside	128
	4-Nitrophenyl 4,6-O-benzylidene-3-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranoside	112

Formula	Product Name	Page	Formula	Product Name	Page
C ₃₃ H ₃₇ NO ₁₈	4-Nitrophenyl 3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-2-O-benzoyl-a-D-mannopyranoside	129	C ₄₂ H ₆₀ N ₄ O ₂₃	4-Methylumbelliferyl N,N',N'',N'''-tetraacetyl-b-D-chitotetraoside	83
C ₃₄ H ₃₂ O ₁₇	Fluorescein di-b-D-glucuronide dimethyl ester	52	C ₄₂ H ₆₅ NO ₃₃	4-Nitrophenyl b-D-cellohexaoside	110
C ₃₄ H ₃₅ NO ₁₆	5-Acetamidofluorescein-di-(b-D-galactopyranoside)	9	C ₄₂ H ₇₄ O ₂₃	4-Nitrophenyl a-D-maltohexaoside	107
C ₃₄ H ₃₇ N ₃ O ₁₇	4-Nitrophenyl 2-acetamido-3-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-2-deoxy-a-D-galactopyranoside	105	C ₄₂ H ₇₅ N ₃ O ₁₆	Bola Sophorolipids	17
C ₃₄ H ₃₉ NO ₁₆	4-Nitrophenyl 2-O-(2,3,4-tri-O-acetyl-a-L-fucopyranosyl)-6-O-benzoyl-3,4-O-isopropylidene-a-D-galactopyranoside	131	C ₄₂ H ₇₅ N ₃ O ₁₆	N,N-Bis[3-(2-D-glucosamidopropyl)cholamide	16
C ₃₄ H ₄₂ N ₂ O ₁₅	4-Methylumbelliferyl 4-Deoxy-β-D-chitobiose Peracetate	80	C ₄₃ H ₄₀ O ₁₅	4-Methylumbelliferyl 2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)-b-D-galactopyranoside	86
C ₃₄ H ₄₄ ClF ₃ O ₂₃	6-Chloro-4-(trifluoromethyl)umbelliferyl b-D-celloseptaoside	41	C ₄₃ H ₈₀ O ₂₂	Decyl maltose neopentyl glycol	45
C ₃₄ H ₄₅ F ₃ O ₂₃	4-(Trifluoromethyl)umbelliferyl b-D-celloseptaoside	153	C ₄₄ H ₅₅ NO ₁₆	5-Dodecanoylamino fluorescein di-b-D-galactopyranoside	50
C ₃₄ H ₄₆ F ₂ O ₂₃	6,8-Difluoro-4-methylumbelliferyl b-D-celloseptaoside	47	C ₄₄ H ₆₂ O ₂₁ S	Octadecylthioethyl 4-O-(4-O[6-O-a-D-glucopyranosyl-a-D-glucopyranosyl]-a-D-glucopyranosyl)-b-D-glucopyranoside	136
C ₃₄ H ₄₇ N ₃ O ₁₈	4-Methylumbelliferyl N,N',N''-triacetyl-b-D-chitotrioside	83	C ₄₅ H ₄₄ N ₂ O ₁₇	2-Nitrophenyl 2-acetamido-3,6-di-O-acetyl-4-O-[2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)]-2-deoxy-b-D-glucopyranoside	103
C ₃₄ H ₄₈ O ₂₃	4-Methylumbelliferyl b-D-celloseptaoside	77	C ₄₅ H ₈₀ O ₂₂	CYMAL-5 neopentyl glycol	43
C ₃₄ H ₅₄ O ₄	4-Methylumbelliferyl lignocerate	82	C ₄₆ H ₅₇ NO ₂₅	4-Methylumbelliferyl 2-acetamido-3-O-(2,3,4-tri-O-acetyl-a-L-fucopyranosyl)-4-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-6-O-acetyl-2-deoxy-b-D-glucopyranoside	73
C ₃₄ H ₅₆ O ₁₄	Lactonic (di-acetylated) Sophorolipids	65	C ₄₆ H ₆₈ O ₃₃	4-Methylumbelliferyl b-D-cellohexaoside	76
C ₃₅ H ₆₈ O ₁₂	Decyl glucose neopentyl glycol	45	C ₄₇ H ₅₅ NO ₂₈	4-Nitrophenyl 2,3-di-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-4,6-benzylidene-b-D-glucopyranoside	119
C ₃₆ H ₄₄ N ₂ O ₁₈	4-Methylumbelliferyl b-D-chitobiose heptaacetate	77	C ₄₇ H ₇₈ BF ₂ N ₃ O ₈	N-(4,4-Difluoro-5,7-dimethyl-4-bora-3a,4a-diazas-indacene-3-dodecanoyl)sphingosyl 1-b-D-galactopyranoside	47
C ₃₆ H ₅₅ NO ₂₈	4-Nitrophenyl b-D-cellopentaoside	110	C ₄₇ H ₈₄ O ₂₂	CYMAL-6 neopentyl glycol	43
C ₃₇ H ₃₀ O ₁₀	4-Nitrophenyl a-D-maltopentaoside	108	C ₄₇ H ₈₈ O ₂₂	Lauryl maltose neopentyl glycol	65
C ₃₇ H ₃₀ O ₁₁	4-Methylumbelliferyl 2,3-di-O-benzoyl-4,6-O-benzylidene-b-D-galactopyranoside	81	C ₄₈ H ₅₁ NO ₁₆	4-Nitrophenyl 6-O-DMT-2,3,4-tri-O-levulinoyl-a-D-mannopyranoside	120
C ₃₇ H ₃₀ O ₁₄ S	4-Methylumbelliferyl 2,3,6-tri-O-benzoyl-b-D-galactopyranoside	87	C ₄₈ H ₇₄ ClNO ₃₈	2-Chloro-4-nitrophenyl b-D-maltoheptaoside	39
C ₃₇ H ₃₅ NO ₁₁	4-Methylumbelliferyl 2,3,4-tri-O-benzoyl-b-D-galactopyranoside-6-sulfate	87	C ₄₈ H ₇₅ NO ₃₈	4-Nitrophenyl b-D-celloheptaoside	110
C ₃₇ H ₃₅ NO ₁₁	4-Nitrophenyl 2,3,4-tri-O-acetyl-6-O-trityl-a-D-glucopyranoside	133	C ₄₉ H ₄₆ O ₁₈	4-Methylumbelliferyl 3,4,6-tri-O-acetyl-2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)-b-D-galactopyranoside	86
C ₃₇ H ₄₂ F ₃ N ₃ O ₁₃	Caspase substrate	33	C ₄₉ H ₈₈ O ₂₂	CYMAL-7 neopentyl glycol	43
C ₃₇ H ₅₆ O ₁₁	Actein	11	C ₅₀ H ₇₇ NO ₃₈	4-Nitrophenyl 4,6-ethylidene-a-D-maltoheptaoside	120
C ₃₇ H ₇₈ ClN	Tridodecylmethylammonium chloride	152	C ₅₂ H ₇₈ O ₃₈	4-Methylumbelliferyl b-D-celloheptaoside	76
C ₃₈ H ₃₂ F ₅ NO ₁₆	5-(Pentafluorobenzoylamino)fluorescein di-b-D-galactopyranoside	142	C ₅₃ H ₅₆ N ₂ O ₂₃	4-Nitrophenyl 2-acetamido-3-O-[2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)-3,4,6-tri-O-acetyl-2-deoxy-D-galactopyranosyl]-b-D-glucopyranoside	105
C ₄₀ H ₂₈ Cl ₂ N ₁₂ O ₁₀	Tetranitroblue tetrazolium chloride	151	C ₅₅ H ₇₉ NO ₃₈	4-Nitrophenyl 4,6-benzylidene-a-D-maltoheptaoside	111
C ₄₀ H ₃₀ Cl ₂ N ₁₀ O ₆	3-Nitrotetrazolium blue chloride	134	C ₅₆ H ₅₅ NO ₂₄	4-Nitrophenyl 2,3,4-tri-O-acetyl-6-O-(2,3,4,6-tetra-O-[4-methoxybenzyl]-a-D-glucopyranosyl)-a-D-glucopyranoside	133
C ₄₀ H ₃₂ N ₂ O ₂ ·2Cl	Nitroblue tetrazolium chloride	96	C ₅₆ H ₉₂ O ₂₅	Glyco-diosgenin	57
C ₄₀ H ₄₁ NO ₁₈	Tetrazolium blue chloride	151	C ₅₇ H ₅₃ NO ₂₁	4-Nitrophenyl 4,6-benzylidene-3-O-(2,3,4,6-tetra-O-[4-methoxybenzyl]-a-D-glucopyranosyl)-a-D-glucopyranoside	112
C ₄₀ H ₄₁ NO ₁₉	4-Nitrophenyl 3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-2,4-di-O-benzoyl-b-D-mannopyranoside	129	C ₅₇ H ₆₀ N ₂ O ₂₅	4-Nitrophenyl 2-acetamido-3,6-di-O-acetyl-4-O-[2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)-3,4,6-tri-O-acetyl-b-D-galactopyranosyl]-2-deoxy-b-D-glucopyranoside	103
C ₄₀ H ₄₇ NO ₁₆	4-Nitrophenyl 3-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-2,4-di-O-benzoyl-b-D-mannopyranoside	130	C ₅₈ H ₈₅ N ₂ O ₁₃ PS-NC ₆ H ₁₅	Fluoresceinophosphatidylethanolamine triethylammonium salt	53
C ₄₀ H ₅₁ NO ₂₆	5-Octanoylamino fluorescein di-b-D-galactopyranoside	136	C ₆₈ H ₈₇ NO ₄₄	4-Nitrophenyl b-D-cellopentaoside hexadecaacetate	110
C ₄₀ H ₅₈ O ₂₈	4-Nitrophenyl 2,3-di-O-(2,3,4,6-tetra-O-acetyl-b-D-glucopyranosyl)-b-D-glucopyranoside	119	C ₇₂ H ₇₀ N ₂ O ₂₃	4-Nitrophenyl 2-acetamido-3-O-[2-O-(2,3,4-tri-O-benzoyl-a-L-fucopyranosyl)-3,4,6-tri-O-acetyl-b-D-galactopyranosyl]-2-deoxy-6-O-trityl-b-D-glucopyranoside	105
C ₄₁ H ₃₄ N ₂ O ₁₀ S	4-Methylumbelliferyl b-D-cellopentaoside	76			
C ₄₁ H ₅₁ NO ₂₃	Colchicine fluorescein	41			
C ₄₁ H ₅₉ N ₃ O ₂₇	4-Nitrophenyl 6-O-(2,3,4,6-tetra-O-acetyl-a-D-mannopyranosyl)-2,3,4-tri-O-levulinoyl-a-D-mannopyranoside	130			
C ₄₁ H ₅₉ N ₃ O ₂₇	4-Nitrophenyl 6'-deoxy-6''-(2-pyridylamino)-a-D-penta-(1-4)-glucopyranoside	118			
C ₄₂ H ₃₂ Cl ₂ N ₁₂ O ₆ S ₂	Thiocarbonyl nitro blue tetrazolium	151			
C ₄₂ H ₄₃ N ₃ O ₁₈	4-Nitrophenyl 2-acetamido-3-O-(3,4,6-tri-O-acetyl-2-deoxy-2-phthalimido-b-D-glucopyranosyl)-2-deoxy-4,6-O-4-methoxybenzylidene-a-D-galactopyranoside	105			
C ₄₂ H ₅₅ N ₃ O ₂₅	4-Nitrophenyl 2-acetamido-6-O-(2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-glucopyranosyl)-3-O-(2,3,4,6-tetra-O-acetyl-b-D-galactopyranosyl)-2-deoxy-a-D-galactopyranoside	98			

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.¹

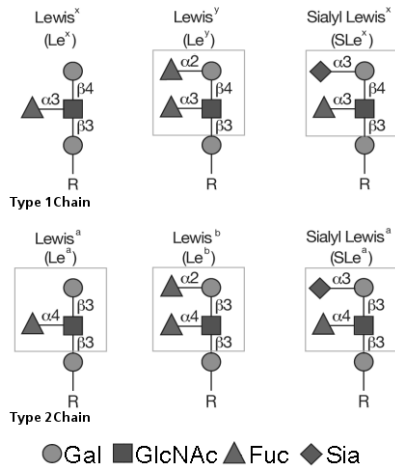


Figure 1 Schematic structure of the Lewis sugars
Structure and Biosynthesis of Lewis Sugars

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 α -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 α -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 α -1,3 linkage and Le^x is synthesised. (Type 1 chains have a β -1,3 core Gal, whilst type 2 chains possess β -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 α -1,2 onto the terminal galactose of the Lewis antigen.²

Complete Le^b or Le^y sugars cannot be further glycosylated due to steric hindrance but Le^a or Le^x 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.¹ 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.³

Clinical Relevance of Lewis Antigens

Immuno-histochemical studies on tumour specimens have shown that Le^x and Le^a 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 antigens⁴ 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 avoidance⁵.

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 infection⁶ 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.⁷

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Carbosynth



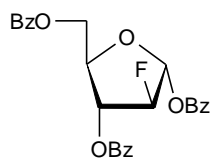
The Source for **Carbohydrates and Nucleosides**

Fluorination Technology

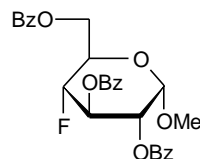
Fluorinated organic compounds have attracted wide interest in drug discovery due to the fluorine's small size (similar to hydrogen), the stable carbon-fluorine bond and its electronegativity. Carbosynth has developed expertise in fluorination of carbohydrates and nucleosides and this technology has been successfully applied at both lab and plant scale.

Monosaccharides

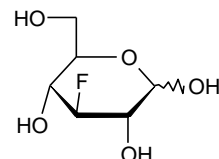
Our fluorination technology has been used to make the following types of monosaccharide



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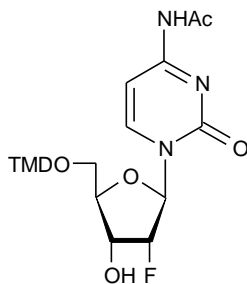
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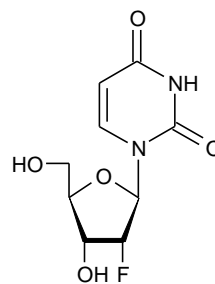
3-Deoxy-3-fluoro-D-glucose (MD05769)

Nucleosides and Bases

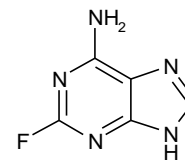
We have extended our technology to nucleosides and nucleoside bases, a few of which are listed here:



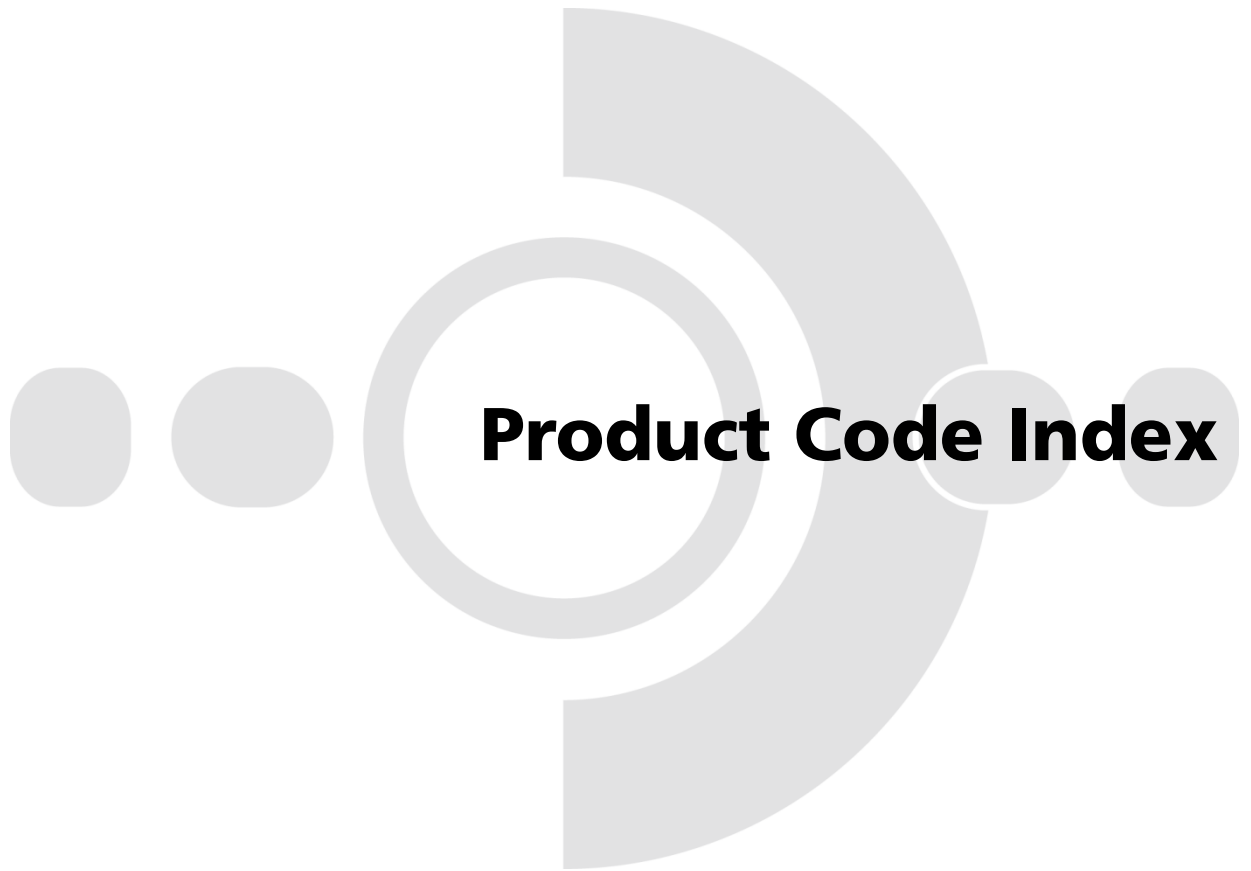
N4-Acetyl-2'-deoxy-5'-O-DMT-2'-fluoro-D-cytidine (NA06052)



2'-Deoxy-2'-fluoro-D-uridine (ND06544)



2-Fluoroadenine (FF05946)



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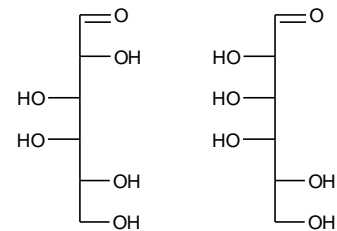
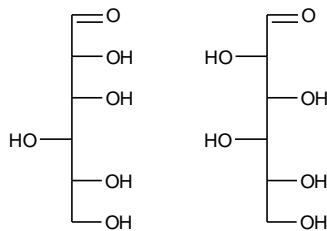
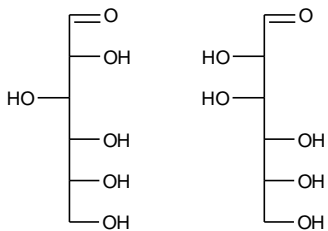
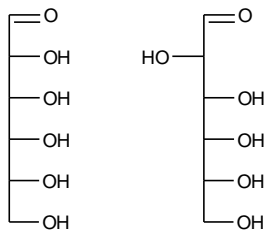
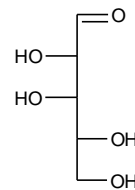
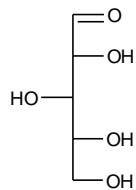
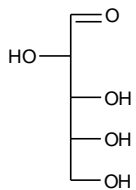
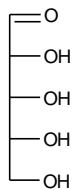
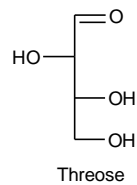
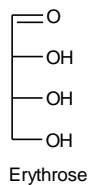
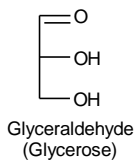
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Acyclic and Cyclic Aldoses

Acyclic Forms of α-D-Aldoses



Allose

Altrose

Glucose

Mannose

Gulose

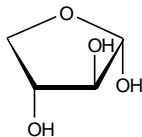
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Galactose

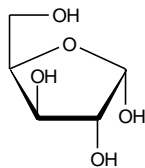
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Cyclic Forms of α-D-Aldoses

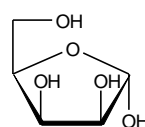
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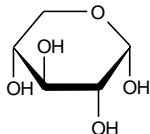
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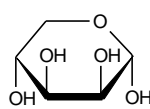
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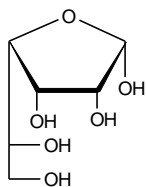
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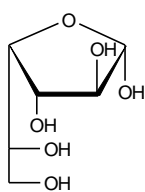
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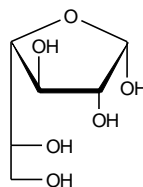
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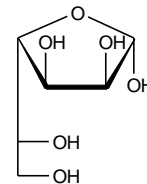
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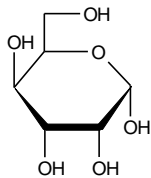
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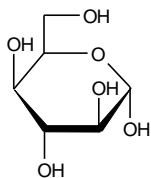
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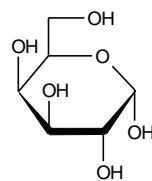
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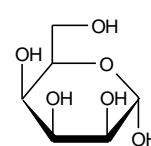
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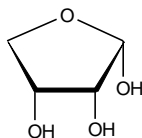


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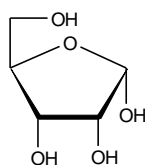


Cyclic Forms of α-D-Aldoses

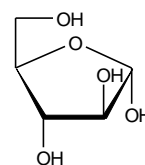
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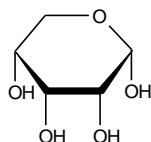
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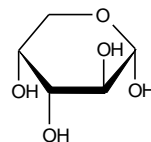
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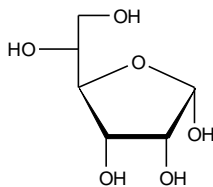
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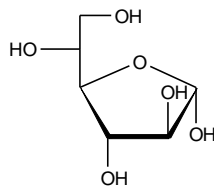
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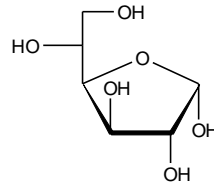
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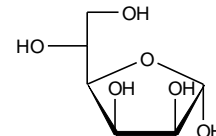
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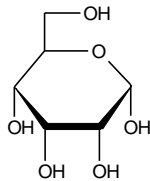
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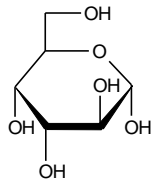
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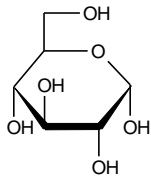
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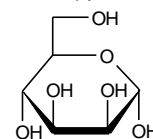
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Glucopyranose



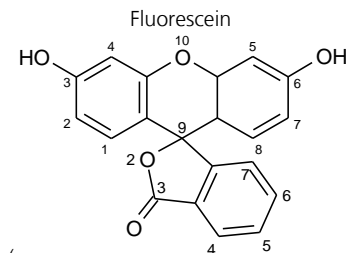
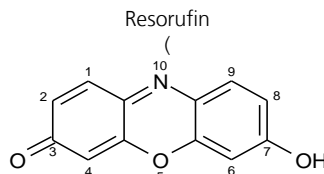
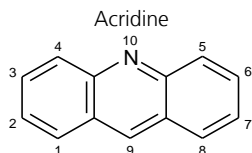
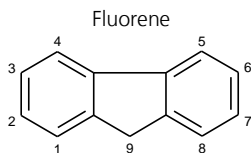
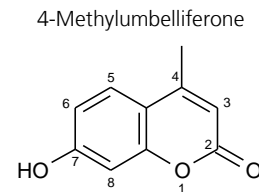
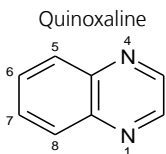
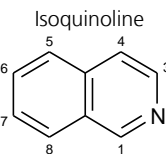
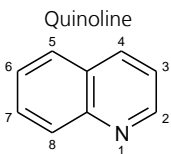
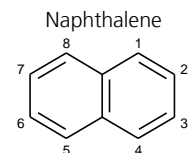
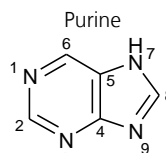
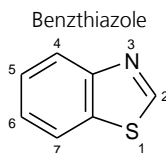
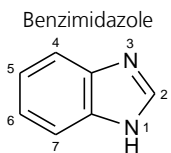
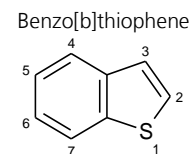
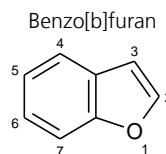
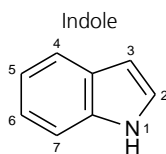
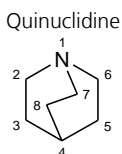
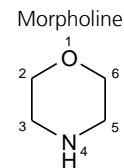
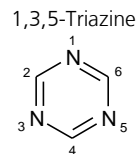
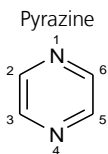
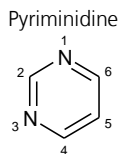
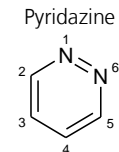
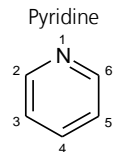
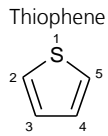
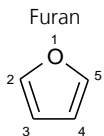
Mannopyranose



A decorative graphic consisting of several concentric circles and a large, thick, light gray arc that is open on the left side. The arc is positioned on the right side of the graphic, curving around the inner circles. The text "Ring Numbering System" is centered over the graphic.

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		

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.



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