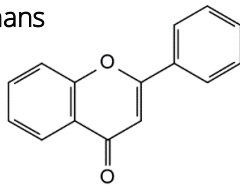


# Flavonoids

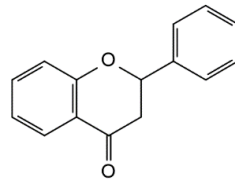
The flavonoids are a large group of polyphenolic natural products, with over 5,000 members. In higher plants, flavonoids are involved in UV filtration, symbiotic nitrogen fixation and floral pigmentation. They are chemical messengers and metabolic regulators, and have anti-microbial, anti-herbivory and cell cycle-regulatory activity. The widespread distribution of flavonoids, their variety and their relative low toxicity compared to other active plant compounds (for instance alkaloids) mean that many animals, including humans, ingest significant amounts in their diet. Foods with high flavonoid content include parsley, onions, berries, tea, bananas, citrus fruits, *Ginkgo biloba*, red wine and dark chocolate. Flavonoids and their metabolites have been ascribed positive effects on human and animal health and are central to the current interest in "botanicals" for disease therapy and chemoprevention. They possess antioxidant, anti-inflammatory, anti-cancer and cardiovascular activity.

Structurally, flavonoids consist of two main groups: the 2-phenylchromans including flavanones, flavones and flavonols and the 3-phenylchromans including isoflavones, isoflavanones and isoflavans.

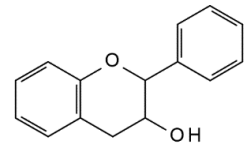
## 2-phenylchromans



**Flavones**  
(e.g. apigenin)

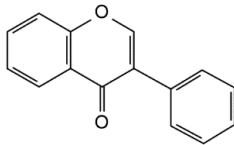


**Flavanones**  
(e.g. naringenin)

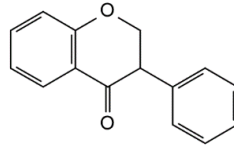


**Flavan-3-ols**  
(e.g. naringenin)

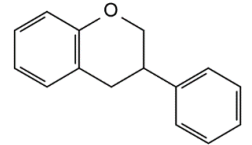
## 3-phenylchromans



**Isoflavones**  
(e.g. genistein)



**Isoflavanones**



**Isoflavans**

Biosynth Carbosynth supplies over 500 different flavonoids (synthetic and of plant origin) for analytical and bio-test purposes in the food and pharmaceutical industries, and for general research in universities and other academic institutions. Our products can be supplied in milligram or gram quantities.

Code	Product	Activity	Quantity	Price (\$)
FD66719	Cirsiliol	Flavone; anti-inflammatory, anti-oxidant	2 mg	50.00
FT39297	Tangeretin	Flavone; neuroprotective, anti-cancer	50 mg	50.00
FD65357	Cyrtopterinetin	Flavanone; cysteine transpeptidase inhibitor	5 mg	100.00
FE146201	Eriodictyol	Flavanone; TRPV1 antagonist, anti-oxidant	25 mg	65.00
FD65969	Fisetin-3',4'-dimethyl ether	Flavan-3-ol; anti-proliferative	25 mg	50.00
FQ32160	Quercetin	Flavan-3-ol; anti-oxidant, protein kinase inhibitor	100 g	55.00
FK08973	Kaempferol	Flavan-3-ol; anti-oxidant, anti-cancer	50 mg	75.00
FB66696	Biochanin A methyl ether	Isoflavone; estrogen receptor agonist	50 mg	67.50
FD10005	Daidzein	Isoflavone; estrogen receptor agonist	50 g	80.00
FD65357	Dihydroisofomononetin	Isoflavanone; anti-microbial	5 mg	100.00
FV45946	Vestitol	Isoflavan; anti-inflammatory, anti-microbial	0.25 mg	200.00