



Delphinidin-3-O-galactoside chloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Delphinidin-3-O-galactoside chloride

Catalog No.: CFN92037

Cas No.: 28500-00-7

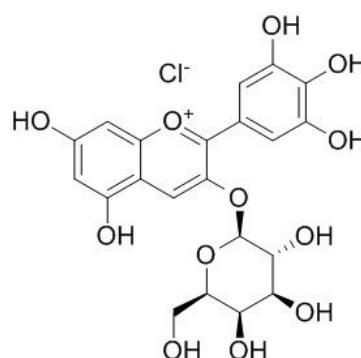
Purity: > 95%

M.F: C₂₁H₂₁ClO₁₂

M.W: 500.8

Physical Description: Powder

Synonyms:



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Ingredient in supplements, beverages;
6. Cosmetic research;
7. Others.

[Source]

The fruits of *Vaccinium myrtillus*.

[Biological Activity or Inhibitors]

Delphinidin-3-O -galactoside (D3G) is a water-soluble anthocyanin with antioxidant activity, it is capable of masking the EGCG-induced cytotoxicity and ER stress, presumably through up-regulation of antioxidant enzymes and heat shock proteins.^[1]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[2]

Mobile phase: 1% Formic acid in Acetonitrile- 1%Formic acid in H₂O,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 520 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Inoue H, Maeda-Yamamoto M, Nesumi A, *et al. Nutr. Res.*, 2012, 32(5):357-64.

[2] Jr T A, Chang C, Edirisinghe I, *et al. J. Agr. Food Chem.*, 2012, 60(23):5803-12.

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