



Delphinidin-3,5-O-diglucoside chloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Delphinidin-3,5-O-diglucoside chloride

Catalog No.: CFN92137

Cas No.: 17670-06-3

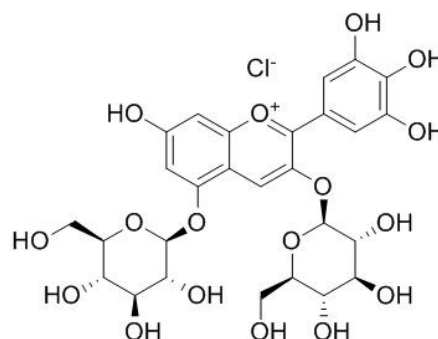
Purity: > 95%

M.F: C₂₇H₃₁O₁₇Cl

M.W: 663.0

Physical Description: Powder

Synonyms: Delphin; Hyacin; Delphoside; Aurobanin A.



[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 3,5-O-diglucoside, a constituent of the maqui berry (*Aristotelia chilensis*) anthocyanin, can suppress reactive oxygen species formation from lacrimal gland tissue, preserve tear secretion, and restore tear secretion in a rat dry eye model.^[1]

Delphinidin 3,5-diglucoside is the major anthocyanin in one of the mutants bloomed novel red-purple flowers of cyclamen cultivars, the mutant to become not only a commercial cultivar itself, but also a valuable genetic resource for cyclamen breeding.^[2]

Delphinidin 3,5-O-diglucoside is one of anthocyanin in pomegranate fruit peel, pomegranate fruit peel has antioxidant, antibacterial and tyrosinase-inhibition activities.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[4]

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] Nakamura S, Tanaka J, Imada T, *et al. J. Funct. Foods*, 2014, 10:346-54.

[2] Kondo E, Nakayama M, Kameari N, *et al. Plant Biotechnol. Na*, 2009, 26(5):565-9.

[3] Fawole O A, Makunga N P, Opara U L. *Bmc Complem. Altern. M.*, 2012, 12(1):1-11.

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

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com