

Peonidin chloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Peonidin chloride

Catalog No.: CFN92034

Cas No.: 134-01-0

Purity: > 95%

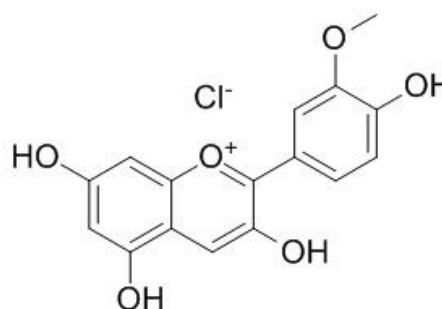
M.F: C₁₆H₁₃ClO₆

M.W: 336.7

Physical Description: Powder

Synonyms: 3,4',5,7-Tetrahydroxy-3'-methoxyflavylium(1+);

3,5,7-Trihydroxy-2-(4-hydroxy-3-methoxyphenyl)-1-benzopyrylium(1+).



[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]

Peonidin chloride has antioxidant activity.^[1]

Peonidin, a common aglycone form of anthocyanin, can ameliorate the MNU induced photoreceptors degeneration and rectify the abnormalities in the inner visual signal pathways.^[2]

Peonidin has anti-inflammatory activities, can inhibit phorbol-ester-induced COX-2 expression and transformation in JB6 P+ cells by blocking phosphorylation of ERK-1 and -2.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[4]

Mobile phase: Acetonitrile- 10% Acetic acid and 1% Phosphoric acid in H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 525 nm.

[Storage]

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

[References]

[1] KS Başkan, E Tütem, E Akyüz, *et al. Eur. Food Res. Technol.*, 2015, 241(4):529-41.

[2] Tao Y, Chen T, Liu Z, *et al. Cell Physiol. Biochem.*, 2016, 38:893-908.

[3] Kwon J Y, Lee K W, Hur H J, *et al. Ann. N.Y. Acad. Sci.*, 2007, 1095(4):513–20.

[4] Krvavac J, Uzunovic A, Toromanovic J, *et al. Planta Med.*, 2009, 75(09):1062-1062.

[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