

Pelargonidin chloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Pelargonidin chloride

Catalog No.: CFN92132

Cas No.: 134-04-3

Purity: > 95%

M.F: C₁₅H₁₁O₅Cl

M.W: 306.7

Physical Description: Powder

Synonyms: 3,4',5,7-Tetrahydroxyflavylium(1+); Pelargonidin;

3,5,7-Trihydroxy-2-(4-hydroxyphenyl)-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]

Pelargonidin chloride, a common anthocyanidin with estrogenic activity, has antioxidative and antigenotoxic properties against 4-nitroquinoline 1-oxide (NQO) in HL-60 cells.^[1]

Pelargonidin Chloride has inhibitory effects of cyclodextrins on the discoloration reaction in acidic media.^[2]

Pelargonidin chloride has strong antioxidative activity in a liposomal system and reduces the formation of malondialdehyde by UVB irradiation. ^[3]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[4]

Mobile phase: A: Acetonitril - B: 10% Acetic acid and 1% Phosphoric acid in water, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 525 nm.

[Storage]

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

[References]

[1] Abraham S K, Schupp N, Schmid U, *et al. Mol. Nutr. Food Res.*, 2007, 51(7):880–7.

[2] Matsui Y, Sunouchi A, Yamamoto T. *J. Incl. Phenom. Mol. Re. Chem.*, 1998, 32(1): 57-67.

[3] Tsuda T, Shiga K, Ohshima K, *et al. Biochem. Pharmacol.*, 1996, 52(7):1033-9.

[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