

Petunidin chloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Petunidin chloride

Catalog No.: CFN92036

Cas No.: 1429-30-7

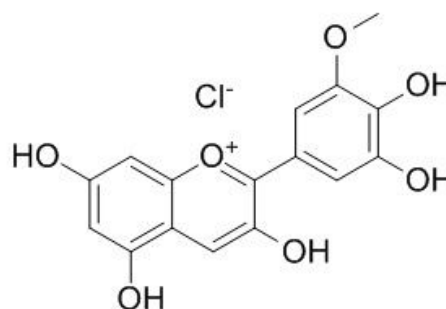
Purity: > 95%

M.F: C₁₆H₁₃ClO₇

M.W: 352.7

Physical Description: Powder

Synonyms: 3,3',4',5,7-Pentahydroxy-5'-methoxyflavylium(1+); Myrtillidin; 2-(3,4-Dihydroxy-5-methoxyphenyl)-3,5,7-trihydroxy-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]

Petunidin has antioxidant activity. ^[1]

Petunidin can act as an effective competitive inhibitor for signaling compounds towards LasR receptor pathway and can serve as a novel QS-based antibacterial/anti-biofilm agent for the management of food borne pathogens.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method] ^[3]

Mobile phase: 10% Formic acid H₂O- Methanol ,the gradient conditions are: 0 min, 18% B; 14 min, 29% B; 16 min, 32% B; 18 min, 41% B;18.1 min, 30% B; 29 min, 41% B; 32 min, 50% B; 34.5 min, 100% B;35–38 min, 18% B ;

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] Kähkönen M P, Heinonen M. *J. Agr. Food Chem.*, 2003, 51(3):628-33.

[2] Gopu V, Meena C K, Murali A, *et al. Rsc. Adv.*, 2015, 6(4):2592-601.

[3] Downey M O, Rochfort S. *J. Chromatogr. A*, 2008, 1201(1):43-7.

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