



Petunidin-3-O-glucosidechloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Petunidin-3-O-glucoside chloride

Catalog No.: CFN92043

Cas No.: 6988-81-4

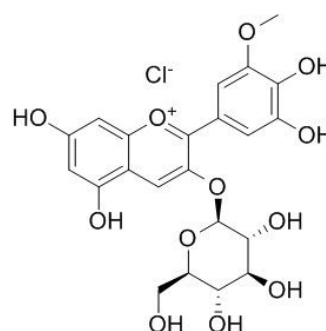
Purity: > 95%

M.F: C₂₂H₂₃ClO₁₂

M.W: 514.9

Physical Description: Powder

Synonyms: Petunidin 3-glucoside.



[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-3-O-glucoside, chloride, delphinidin-3-O-glucoside chloride, cyanidin-3-O-glucoside chloride present in *Vitis vinifera* L, all hydroxyl groups of the anthocyanins can be electrochemically oxidized and the anthocyanins studied revealed a complex and pH dependent oxidation process, with the occurrence of adsorption and of oxidation products blocking the electrode surface.^[1]

Petunidin-3-O-glucoside shows strong antioxidant activities, including DPPH radical-scavenging capacity, ABTS radical scavenging capacity, reducing power and oxygen radical absorbance capacity (ORAC).^[2]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile-5%Formic acid H₂O=24:76 ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 525 nm.

[Storage]

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

[References]

[1] Poskuta J. *Electroanalysis*, 2007, 19(17):1779-86.

[2] Cui C, Zhang S, You L, *et al. Food Chem.*, 2013, 139(1-4):1-8.

[3] You H, Ouyang J, Wu Y W, *et al. Journal of Instrumental Analysis*, 2010, 3.

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