

Malvidin chloride Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Malvidin chloride

Catalog No.: CFN92035

Cas No.: 643-84-5

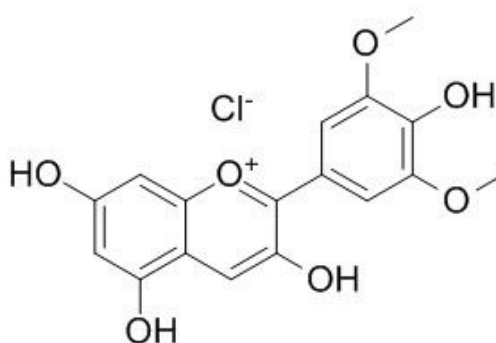
Purity: > 95%

M.F: C₁₇H₁₅ClO₇

M.W: 366.8

Physical Description: Powder

Synonyms: 3,5,7-trihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-1-benzopyrylium chloride; Oenidin.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Others.

[Source]

The fruits of *Vaccinium myrtillus*.

[Biological Activity or Inhibitors]

Malvidin chloride, a colouring agent from flowers of *Malvaviscus konzattii* Greenum, it shows anti-spermatogenic activity in langur monkeys.^[1]

Malvidin chloride has antioxidant effect, it can prevent endothelial dysfunction by inhibiting ROS and XO-1, which provides a theoretical basis for the application of it to prevent cardiovascular diseases as a functional food or nutraceutical ingredient.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: 10% Acetic acid and 1% phosphoric acid in water- Acetonitrile, 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] Bhargava S K. *Int. J .Androl.*, 1990 Jun; 13(3):207-15.

[2] Xu L P, Fu L, Huang W Y, *et al. Food Science*, 2015, 36(21):233-7.

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

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