



Delphinidin-3-O-rutinoside chloride Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Delphinidin-3-O-rutinoside chloride

Catalog No.: CFN92136

Cas No.: 15674-58-5

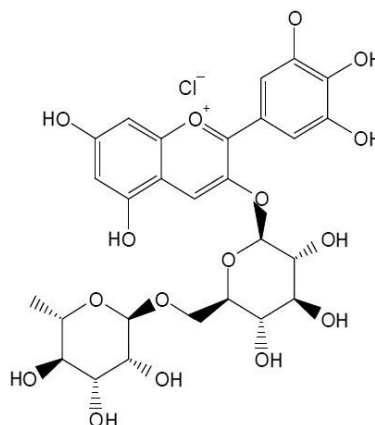
Purity: > 95%

M.F: C₂₇H₃₁O₁₆Cl

M.W: 645.0

Physical Description: Powder

Synonyms: Tulipanin; Delphinidin 3-rutinoside; Delphinidin-3-glucorhamnoside.



[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]

Delphinidin-3-O- rutinoside and delphinidin-3-O- glucoside can induce a redox-sensitive caspase 3-dependent apoptosis in Jurkat cells, involve a dysregulation of the Akt/Bad/Bcl-2 pathway.^[1]

Delphinidin 3-rutinoside has antioxidant activity.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: (Acetonitrile/H₂O/Formic acid=5:92:3)-0.1% Formic acid in acetonitrile, gradient elution ;

Flow rate: 1.5 ml/min;

Column temperature: 45 °C;

The wave length of determination: 520 nm.

[Storage]

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

[References]

[1] León-González A J, Sharif T, Kayali A, *et al. J.Funct. Foods*, 2015, 17:847-56.

[2] Azuma K, Ohyama A, Ippoushi K, *et al. J. Agric. Food Chem.*, 2008, 56(21):10154-9.

[3] Sivam A S, Sun-Waterhouse D, Perera C O, *et al. Food Chem.*, 2012, 131(3):802-10.

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