



Delphinidin-3-sambubioside chloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Delphinidin-3-sambubioside chloride

Catalog No.: CFN92171

Cas No.: 53158-73-9

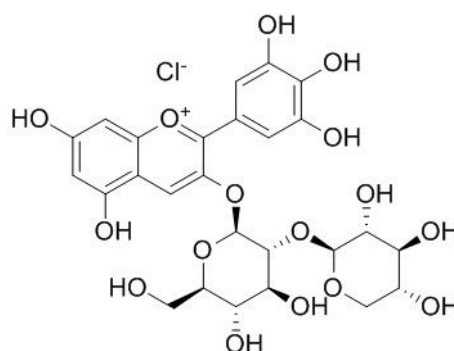
Purity: > 95%

M.F: C₂₆H₂₉O₁₆Cl

M.W: 633.0

Physical Description: Powder

Synonyms: Delphinidin 3-sambubioside.



[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-sambubioside (Dp3-Sam), a Hibiscus anthocyanin, was isolated from the dried calices of Hibiscus sabdariffa L, Dp3-Sam could induce a dose-dependent apoptosis in human leukemia cells (HL-60) as characterized by cell morphology, DNA fragmentation, activation of caspase-3, -8, and -9, and inactivation of poly(ADP)ribose polymerase (PARP).^[1]

Delphinidin 3-sambubioside possesses potential anti-inflammatory properties, it reduces the production of IL-6, MCP-1 and TNF- α and attenuates mouse paw edema induced by LPS. ^[2]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[3]

Mobile phase: 1% Formic acid in Acetonitrile- 1%Formic acid in H₂O,gradient elution ;

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] Hou D X, Tong X, Terahara N, *et al. Arch. Biochem. Biophys*, 2005, 440(1):101-9.

[2] Sogo T, Terahara N, Hisanaga A, *et al. Biofactors*, 2015, 41(1):58–65.

[3] Jr T A, Chang C, Edirisinghe I, *et al. J. Agr. Food Chem.*, 2012, 60(23):5803-12.

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