

Delphinidin chloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Delphinidin chloride

Catalog No.: CFN92033

Cas No.: 528-53-0

Purity: > 95%

M.F: C₁₅H₁₁ClO₇

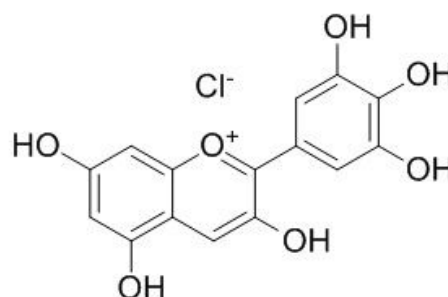
M.W: 338.7

Physical Description: Powder

Synonyms:

3,3',4',5,5',7-Hexahydroxyflavylium; Delphinidol;

3,5,7-Trihydroxy-2-(3,4,5-trihydroxyphenyl)-1-benzopyrilium(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]

Pelargonidin chloride has strong antioxidative activity in a liposomal system and reduced the formation of malondialdehyde by UVB irradiation, the extent of antioxidative activity in a rat liver microsomal system and the scavenging effect of hydroxyl radicals ($\cdot\text{OH}$) and Superoxide anion radicals ($\text{O}_2^{\cdot-}$) were influenced by their own structures.^[1]

Delphinidin chloride, hydroxytyrosol and rosmarinic acid are unstable in three commonly-used cell culture media (Dulbecco's modified Eagle's medium (DMEM), RPMI 1640 (RPMI) and Minimal Essential Medium Eagle (MEM)) and undergo rapid oxidation to generate H_2O_2 .^[2]

Delphinidin chloride is a potent free-radicals scavenger endowed with microvascular protective activity.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[4]

Mobile phase: 1% Formic acid in Acetonitrile- 1%Formic acid in H_2O , 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] Tsuda T, Shiga K, Ohshima K, *et al.* *Biochem. Pharmacol.*, 1996, 52(7):1033-9.

[2] Long L H, Hoi A, Halliwell B. *Arch. Biochem. Biophys.*, 2010, 501(501):162-9.

[3] Gabetta B, Morazzoni P, Pifferi G. *Planta Med.*, 1990, 56(6):694-5.

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

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