



## Delphinidin-3-O-glucoside chloride Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Delphinidin-3-O-glucoside chloride

**Catalog No.:** CFN92038

**Cas No.:** 6906-38-3

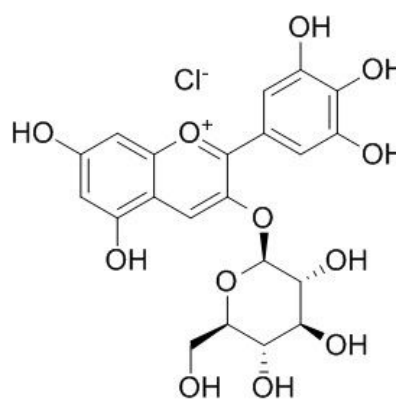
**Purity:** > 95%

**M.F:** C<sub>21</sub>H<sub>21</sub>ClO<sub>12</sub>

**M.W:** 500.8

**Physical Description:** Powder

**Synonyms:** Myrtillin; Delphinidin 3-glucoside; Myrtillin A.



### [ 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-glucoside chloride has antioxidant activity.<sup>[1]</sup>

Delphinidin-3-O-glucoside inhibits the proliferation and induces G2 /M phase cell cycle arrest and apoptosis in Jurkat cells, associated with an increased expression of p73 and caspase 3, dephosphorylation of Akt and Bad, and down-regulation of UHRF1 and Bcl-2.<sup>[2]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, Hot water, etc.

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Ethanol- H<sub>2</sub>O= 70 : 30 ;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 520 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Li R, Hettiarachchy N, Rayaprolu S, *et al. J. Med. Food*, 2014, 17(3):384-92.

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

[3] Salazar-González C, Vergara-Balderas F T, Ortega-Regules A E, *et al. Ciencia E Investigación Agraria*, 2012, 39(1):79-90.

## **[ Contact ]**

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