



Cyanidin-3-O-glucosidechloride

4th Edition (Revised in July, 2016)

[Product Information]

Name: Cyanidin-3-O-glucoside chloride

Catalog No.: CFN99740

Cas No.: 7084-24-4

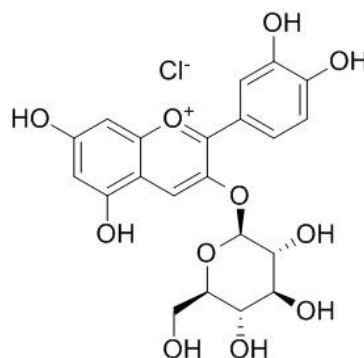
Purity: > 98%

M.F: C₂₁H₂₁O₁₁

M.W: 449.38

Physical Description: Yellow powder

Synonyms: Kuromanin-chloride; (2S,3R,4S,5S,6R)-2-[[2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-1-benzopyrylium-3-yl]oxy]-6-(hydroxymethyl)oxane-3,4,5-triol chloride.



[Intended Use]

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

[Source]

The herbs of *Chrysanthemum indicum*

[Biological Activity or Inhibitors]

Cyanidin-3- O -glucoside, is one of the main component of mulberry anthocyanins, has protective effects from blackberry extract against peroxynitrite-induced endothelial dysfunction and vascular failure.^[1]

Cyanidin-3- O -glucoside exhibits strong antioxidant activities including DPPH radical scavenging activities, ABTS radical scavenging activities and ORAC values.^[2]

Cyanidin-3-O-glucoside chloride decreases mutant p21 expression, and increases the ratio of Bax/Bcl-2 and the activation of caspase-3 to induce apoptosis.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[4]

Mobile phase: 0.5% Phosphoric acid H₂O- H₂O=50:50 ;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C;

The wave length of determination: 520 nm.

[Storage]

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

[References]

[1] Serraino I, Dugo L, Dugo P, *et al. Life Sci.*, 2003, 73(9):1097-114.

[2] Chen M, Meng H, Zhao Y, *et al. BMC Complement. Altern. M.*, 2015, 15(1):1-8.

[3] Chen M, Zhao Z, Yu S. *Int. J. Mol. Sci.*, 2016, 17(7).

[4] Liu Z Y, Liu X Q, Bai S F, *et al. Food Sci.*, 2011, 32(18):256-9.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com