



Cyanidin-3-O-galactoside chloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Cyanidin-3-O-galactoside chloride

Catalog No.: CFN92040

Cas No.: 27661-36-5

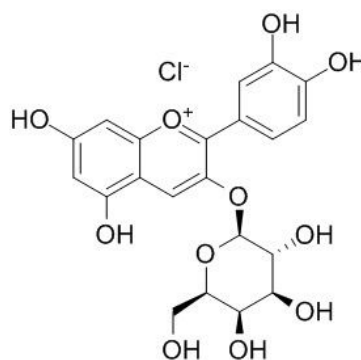
Purity: > 95%

M.F: C₂₁H₂₁ClO₁₁

M.W: 484.9

Physical Description: Powder

Synonyms: Cyanidin 3-galactoside; Idein; Idaein.



[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]

Cyanidin-3-O-galactoside is a flavonoid-enriched extract derived from the peel of Northern Spy apples, has neuroprotective effects, can reduce HI-induced brain injury and motor deficits by increasing the resistance of vulnerable neurons to ischemic cell death and decreasing the production of inflammatory cytokines.^[1]

Cyanidin-3-O-galactoside and blueberry extracts were shown effective functions to relieve cellular injury, improve hippocampal neurons survival and inhibit the pyramidal cell layer damage; also increases SOD activity and reduces MDA content in brain tissues and plasma, and increased hippocampal phosphorylated ERK (p-ERK) expression in SAMP8 mice; thus, cyanidin-3-O-galactoside and blueberry extracts supplementation can improve spatial memory and regulates hippocampal ERK expression in senescence-accelerated mice.^[2]

Cyanidin-3-O-galactoside has antioxidant activity in the reduction of the stable DPPH radical and in the inhibition of lipid peroxidation.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[4]

Mobile phase: 0.1% Folic acid in water- 0.1% Folic acid in methanol, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 530 nm.

[Storage]

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

[References]

- [1] Dunlop K E. *DalSpace Home*. 2012, 11.20.
- [2] Tan L, Yang H P, Pang W, *et al. Biomed. Environ.Sci.*, 2014, 27(3):186-96.
- [3] Giomaro G, Karioti A, Bilia A R, *et al. Chem. Cent. J.*, 2014, 8(1):1-10.
- [4] Ha T J, Lee M H, Yu N J, *et al. Food Sci. Biotechnol.*, 2010, 19(3):821-6.

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