Natural Products

ChemFaces

Procyanidin B1 Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Procyanidin B1

Catalog No.: CFN99557

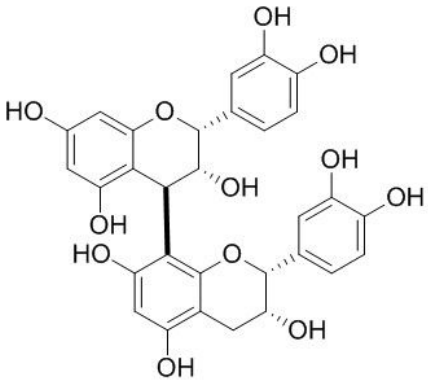
Cas No.: 20315-25-7

Purity: > 98%

M.F: $C_{30}H_{26}O_{12}$

M.W: 578.52

Physical Description: Powder



Synonyms:2-(3,4-Dihydroxyphenyl)-8-[2-(3,4-dihydroxyphenyl)-3,5,7-trihydroxy-3,4-dihydro-2H-1-benzopyran-4-yl]-3,4-dihydro-2H-1-benzopyran-3,5,7-triol.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

[Source]

The fruits of *Vitis vinifera L.*

[Biological Activity or Inhibitors]

Procyanidin B1, one of the major components of Flavangenol, also suppresses fat accumulation and induced mRNA expression of the fatty acid oxidative enzymes.[1]

Procyanidin B1 suppresses HCV RNA synthesis, possibly as a HCV RNA polymerase inhibitor, it may contribute towards the development of more effective inhibitors for HCV infection from natural plants.[2]

Procyanidin B1 has neuroprotective effects, may attenuate the activation of caspase-3 by inhibiting that of caspase-8 and -9. [3]

Procyanidin B1 has anti-inflammatory effect on LPS-treated THP1 cells via interaction with the TLR4–MD-2 heterodimer and p38 MAPK and NF-κB signaling.[4]

Procyanidin B1 strongly inhibits the proliferation of HeLa S3 cells. [5]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method][6]

Mobile phase: Acetonitrile- 0. 1% Phosphoric acid H2O gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Sano A, Yamakoshi J, Tokutake S, *et al. Biosci. Biotech. Bioch., 2003, 67(5):1140-3.*

[2] Li S, Kodama E N, Inoue Y, *et al. Antiviral Chem. Chemoth., 2010, 20(6):239-48.*

[3] Kanno H, Kawakami Z, Tabuchi M, *et al. J. Ethnopharmacol., 2014, 159:122–8.*

[4] Jing Xing, Rui Li, Nan Li,*et al. Mol. Cell Biochem., 2015, 407(1-2):89-95.*

[5]Okamoto S, Ishihara S, Okamoto T, *et al. Molecules, 2014, 19(2):1775-85.*

[6] Zhao C Y, Wang M, Zhang G W, *et al. J. Shenyang Pharm. Univ., 2014, 31(1):32-5.*

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