

Procyanidin B3 Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Procyanidin B3

Catalog No.: CFN99559

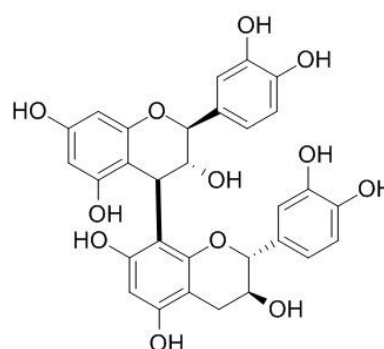
Cas No.: 23567-23-9

Purity: > 98%

M.F: C₃₀H₂₆O₁₂

M.W: 578.52

Physical Description: Powder



Synonyms: (2R,3S)-2-(3,4-dihydroxyphenyl)-8-[(2R,3S,4S)-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 B3 (B3) prevents osteoarthritis (OA) progression and heterotopic cartilage formation, at least in a part through the suppression of iNOS, these results support the potential therapeutic benefits of B3 for treatment of human OA and heterotopic ossification.^[1]

Procyanidin B3 is an inhibitor of histone acetyltransferase, B3 enhances the action of antagonist for prostate cancer cells via inhibition of p300-dependent acetylation of androgen receptor; B3 treatment inhibited acetylation-dependent prostate cell proliferation and expression of cell-cycle control genes, subsequently increasing cell death, indicating the functional importance of AR acetylation for prostate cancer cell growth.^[2]

[Solvent]

Pyridine, Methanol, Hot water, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile- H₂O gradient elution ;

Flow rate: 0.8 ml/min;

Column temperature: 32 °C;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Aini H, Ochi H, Iwata M, *et al. Plos One*, 2012, 7(5):e37728.

[2] Choi K C, Park S, Lim B J, *et al. Biochem. J.*, 2011, 433(1):235-44.

[3] Ricardo-Da-Silva J M, Bourzeix M, Cheynier V, *et al.* *Vitis -Geilweilerhof-*, 1991, 30(3):245-52.

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