Natural Products

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: C_{30}H_{26}O_{12}
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 ℃;
The wave length of determination: 280 nm.

**[Storage]**

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

**[References]**


[Contact]

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