Natural Products

ChemFaces

Pinostilbene Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Pinostilbene

Catalog No.: CFN98662

Cas No.: 42438-89-1

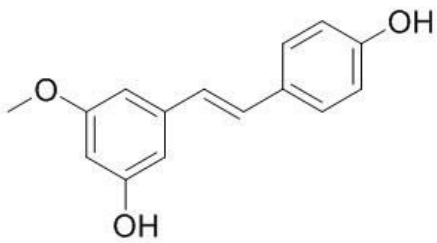
Purity: > 95%

M.F: $C_{15}H_{14}O_3$

M.W: 242.27

Physical Description: Powder

Synonyms: 3,4'-Dihydroxy-5-methoxystilbene.



[Intended Use]

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

[Source]

The seeds of *Vitis riparia.*

[Biological Activity or Inhibitors]

Pinostilbene has protective effects against 6-hydroxydopamine-induced neurotoxicity in

SH-SY5Y cells, it can reduce release of lactate dehydrogenase and activity of caspase-3 triggered by 6-hydroxydopamine (6-OHDA) in a dose-dependent manner.[1]

Pinostilbene can significantly inhibit the growth of human colon cancer cells, i.e., HCT116 and HT29, 20 and 40 uM of pinostilbene causes cell cycle arrest at S phase and induces apoptosis in colon cancer cells; these effects are associated with profound modulation of signaling proteins related with cell proliferation and programmed cell death.[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method][3]

Mobile phase: 0.05% Trifluoroacetic acid in water- Acetonitrile,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 300 nm.

[Storage]

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

[References]

[1] Chao J F, Li H T, Cheng K W, *et al. J. Nutr. Biochem., 2010, 21(6):482-9.*

[2] Sun Y, Wu X, Cai X, *et al. Mol. Nutr. Food Res.,2016, 60(9):1924-32.*

[3] Kang S Y, Lee J K, Choi O, *et al. Bmc Biotechnol., 2014, 14(14):67-78.*

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