Natural Products

ChemFaces

Panaxydol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Panaxydol

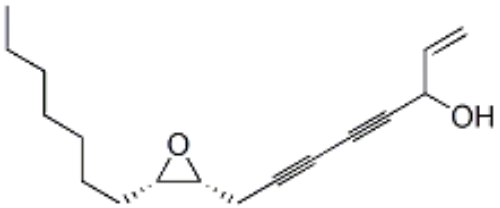
Catalog No.: CFN92797

Cas No.: 72800-72-7

Purity: >98%

M.F: $C_{17}H_{24}O_2$

M.W: 260.37



Physical Description: Oil

Synonyms:(3R)-8-[(2R,3S)-3-Heptyloxiranyl]-1-octene-4,6-diyne-3-ol; (3R,9R,10S)-3-Hydroxy-9,10-epoxy-1-heptadecene-4,6-diyne;(3R,9R,10S)-Panaxydol; (3R,9R,10S)-9,10-Epoxy-1-heptadecene-4,6-diyn-3-ol.

[Intended Use]

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

[Source]

The roots of *Panax ginseng C. A. Mey.*

[Biological Activity or Inhibitors]

Panaxydol, a polyacetylene compound isolated from Panax ginseng, exerts anti-proliferative effects against malignant cells, it can increase the mRNA content of p21 while reducing that of Id-1 and Id-2, also increases the protein levels of p21, pRb and the hypophosphorylated pRb in a dose-dependent manner, suggests that panaxydol is of value for further exploration as a potential anti-cancer agent.[1]

Panaxydol(PND) and panaxynol (PNN) protect cultured cortical neurons against Abeta25-35-induced toxicity, the inhibition of calcium influx and free radical generation is a mechanism of the anti-apoptotic action of PND and PNN, since Abeta plays critical roles in the pathogenesis of Alzheimer's disease (AD), these findings raise the possibility that PND and PNN reduce neurodegeneration in AD.[2]

[Solvent]

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

[HPLC Method][3]

Mobile phase: Acetonitrile- H2O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 230 nm.

[Storage]

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

[References]

[1] Guo L, Song L, Wang Z, *et al. Chem.Biol. Interact., 2009, 181(1):138-43.*

[2] Nie B M, Jiang X Y, Cai J X, *et al. Neuropharmacology, 2008, 54(5):845-53.*

[3] Li J, Jiang J, Zheng Y, *et al. China Journal of Chinese Materia Medica, 2011, 36(17):*

2380-2.

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