Natural Products

ChemFaces

Dauricine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Dauricine

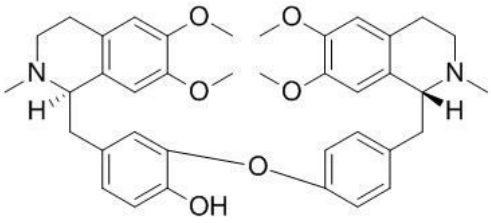
Catalog No.: CFN98129

Cas No.: 524-17-4

Purity: >=98%

M.F: $C_{38}H_{44}N_2O_6$

M.W: 624.77



Physical Description: Powder

Synonyms:-(4-((1,2,3,4-tetrahydro-6,7-dimethoxy-2-methyl-1-isoquinolinyl)methyl)phenox;(r-(r*,r*))-y);4-[[(1R)-1,2,3,4-Tetrahydro-6,7-dimethoxy-2-methyl-1-isoquinolinyl]methyl]-2-[4-[[(1R)-1,2,3,4-tetrahydro-6,7-dimethoxy-2-methyl-1-isoquinolinyl]methyl]phenoxy]phenol;Dauricine (8ci);6,6'-Di-O-Methyldauricoline.

[Intended Use]

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

[Source]

The roots of *Menispermum dauricum DC.*

[Biological Activity or Inhibitors]

Dauricine, a bioactive component of Asiatic Moonseed Rhizome, has been widely used to treat a large number of inflammatory diseases in traditional Chinese medicine; it also can inhibit colon cancer cell proliferation and invasion, and induce apoptosis by suppressing nuclear factor-kappaB (NF-κB) activation in a dose- and time-dependent manner, these findings provide evidence for a novel role of dauricine in preventing or treating colon cancer through modulation of NF-κB singling pathway.[1]

Dauricine can prevent neuronal loss from ischemia in vitro, it has neuroprotective effect in cortical neuron culture exposed to hypoxia and hypoglycemia, involvement of correcting perturbed calcium homeostasis.[2]

Dauricine and anisodamine can inhibit leukotrienes- and platelet activating factor-induced DNA synthesis and proliferation of bovine cerebral microvascular smooth muscle cells in culture. [3]

Dauricine has antagonistic effect on experimental arrhythmia.[4]

[Solvent]

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

[HPLC Method][5]

Mobile phase: Acetonitrile-0.05% Triithylamine H2O,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 35 ℃;

The wave length of determination: 284 nm.

[Storage]

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

[References]

[1] Yang Z, Li C, Wang X, *et al. J.Cell. Physiol., 2010, 225(1):266-75.*

[2] Li Y H, Gong P L. *Can. J.Physiol. Pharm., 2007, 85(6):621-7.*

[3] Zeng G Q, Ju D W, Sun D X, *et al. Acta Pharmacol. Sin., 1993, 14(4):329-31.*

[4] Li G R, Hu C J, Lü F H. *Journal of Traditional Chinese Medicine, 1984, 4(1):25-8.*

[5] Li J T, Li D F. *Chinese Pharmaceutical Affairs, 2012, 26(10):1122-4.*

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