Natural Products

ChemFaces

alpha-Asarone Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: alpha-Asarone

Catalog No.: CFN93217

Cas No.: 2883-98-9

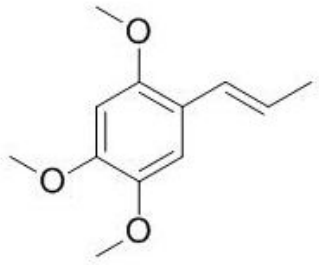
Purity: >=98%

M.F: $C_{12}H_{16}O_3$

M.W: 208.25

Physical Description: Powder

Synonyms:



[Intended Use]

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

[Source]

The seeds of *Daucus carota.*

[Biological Activity or Inhibitors]

alpha-Asarone has antioxidant property against noise-stress induced changes in the rat

brain.[1]

alpha-Asarone may protect neurons against Abeta((25-35))-caused neurotoxicity by inhibiting the effects of NO overproduction in the hippocampus and temporal cortex, it has memory improvement effect.[2]

alpha-Asarone is an inhibitor of hepatic HMG-CoA reductase, the inhibition of HMG-CoA reductase and the increase in bile flow induced by alpha-asarone, as well as the decrease in the cholesterol saturation index (CSI), could then explain the hypocholesterolemic and cholelitholytic effects of alpha-asarone. [3]

alpha-Asarone inhibits the activity of hippocampal neurons and produces antiepileptic effect in central nervous system through enhancing tonic GABAergic inhibition.[4]

alpha-Asarone can attenuate corticosterone-induced anxiety-like behaviours via modulating TrkB signaling process.[5]

alpha-Asarone has genotoxic activity.[6]

alpha-Asarone can protect against Ang II-mediated damage of endothelial cells and may be developed to prevent injury to cardiovascular tissues.[7]

alpha and beta Asarone have anthelmintic activity.[8]

[Solvent]

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

[HPLC Method][9]

Mobile phase: 0.5% Acetic acid in water- Methanol=25:75 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Manikandan S, Devi R S. *Pharmacol. Res. 2005, 52(6):467-74.*

[2] Limón I D, Mendieta L, Díaz A, *et al. Neurosci. Lett., 2009, 453(2):98-103.*

[3] Rodríguezpáez L, Juárezsanchez M, Antúnezsolís J, *et al. Phytomedicine, 2003, 10(5):397-404.*

[4] Huang C, Li W G, Zhang X B, *et al. Neuropharmacology. 2012, 65C(5):1-11.*

[5] Lee B, Sur B, Yeom M, *et al. Korean J. Physiol. Pha., 2014, 18(3):191-200.*

[6] Marczewska J, Drozd E, Anuszewska E, *et al. Acta Pol. Pharm., 2014, 70(2):349-54.*

[7] Shi H X, Yang J, Yang T, *et al. Evid.-Based Compl. Alt., 2014(3):682041-682041.*

[8] Devi S A, Deepak G, Babu S. *Res. J. Biotechnol. 2012, 7(4):112-3.*

[9] Pandit S, Mukherjee P K, Ponnusankar S, *et al. Fitoterapia, 2010, 82(3):369-74.*

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