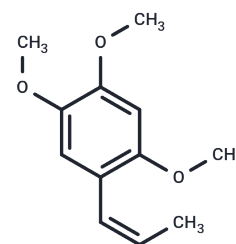


beta-Asarone

Chemical Properties

CAS No. :	5273-86-9
Formula:	C ₁₂ H ₁₆ O ₃
Molecular Weight:	208.25
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	1. beta-Asarone (Cis-Isoelemicin) may be a potential preventive drug for Alzheimer's disease. 2. Beta-Asarone prevents autophagy and synaptic loss by reducing ROCK expression in SAMP8 mice. 3. The co-administration of beta-Asarone(Cis-Isoasarone) and l-dopa may contribute to the treatment of 6-OHDA-induced damage in rats by inhibiting autophagy activity. 4. Beta-Asarone exhibits anti-inflammatory effects by suppressing the production of pro-inflammatory mediators through NF-κB signaling and the JNK pathways in activated microglial cells and might be developed as a promising candidate to treat various neuroinflammatory diseases.
Targets(IC50)	NF-κB,JNK

Solubility Information

Solubility	DMSO: 55 mg/mL (264.11 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.6 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8019 mL	24.0096 mL	48.0192 mL
5 mM	0.9604 mL	4.8019 mL	9.6038 mL
10 mM	0.4802 mL	2.401 mL	4.8019 mL
50 mM	0.096 mL	0.4802 mL	0.9604 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kumar R , Prakash O , Pan A K , et al. Compositional variations and anthelmintic activity of essential oils from rhizomes of different wild populations of *Acorus calamus* L. and its major component, beta-Asarone.[J]. Natural Product Communications, 2009, 4(2):275-278.

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