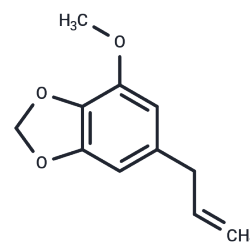


Myristicin

Chemical Properties

CAS No. :	607-91-0
Formula:	C ₁₁ H ₁₂ O ₃
Molecular Weight:	192.21
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	Myristicin (Myristicine) is a natural product found in spices and umbelliferous plants. Myristicin has anti-cholinergic, Antibacterial, and hepatoprotective effects, it also has anti-inflammatory properties related with its inhibition of NO, cytokines, chemokines, and growth factors in dsRNA-stimulated macrophages via the calcium pathway. Myristicin can induce Apoptosis as characterised by alterations in the mitochondrial membrane potential, cytochrome c release, Caspase-3 activation, PARP-cleavage and DNA fragmentation.
Targets(IC50)	Apoptosis, ERK, EGFR, Anti-infection, Bcl-2 Family, 5-HT Receptor, Caspase, GABA Receptor, Antibacterial, NO Synthase, Cytochromes P450, IL Receptor, PARP

Solubility Information

Solubility	DMSO: 250 mg/mL (1300.66 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: 1 mg/mL (5.2 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	5.2026 mL	26.0132 mL	52.0264 mL
5 mM	1.0405 mL	5.2026 mL	10.4053 mL
10 mM	0.5203 mL	2.6013 mL	5.2026 mL
50 mM	0.1041 mL	0.5203 mL	1.0405 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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