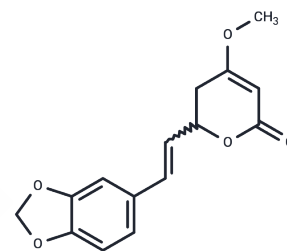


Methylsticin

Chemical Properties

CAS No. :	495-85-2
Formula:	C ₁₅ H ₁₄ O ₅
Molecular Weight:	274.27
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Methylsticin is a kavalactone isolated from the kava roots. Methylsticin (Methylsticin) exhibit osteoclast formation inhibitory activity. It inhibits activation of NF- κ B in lung adenocarcinoma tissue, activates Nrf2 in neurons and astroglia, decreases peak amplitude of voltage-gated Na ⁺ channels in hippocampal neurons, and suppresses growth of Fusarium, Trichoderma, and Colletotrichum.
Targets(IC50)	Others
In vitro	The kavalactones, and compositions thereof, are useful in mediating osteoclast activity, and as such, are useful in treating or preventing disease or disease symptoms mediated by osteoclast activity.

Solubility Information

Solubility	DMSO: 22.5 mg/mL (82.04 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 (3.65 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	3.646 mL	18.2302 mL	36.4604 mL
5 mM	0.7292 mL	3.646 mL	7.2921 mL
10 mM	0.3646 mL	1.823 mL	3.646 mL
50 mM	0.0729 mL	0.3646 mL	0.7292 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

Shoujun Chen, et al. Methods of inhibiting osteoclast activity. US20030229137A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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