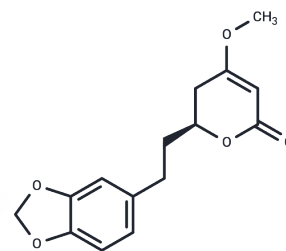


## Dihydromethysticin

## Chemical Properties

CAS No. :	19902-91-1
Formula:	C <sub>15</sub> H <sub>16</sub> O <sub>5</sub>
Molecular Weight:	276.28
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	Dihydromethysticin ((+)-Dihydromethysticin) is a kavalactone found in Piper methysticum. It has marked activity on the induction of CYP3A23.
Targets(IC50)	Apoptosis, NOD-like Receptor (NLR), Lipid, Cytochromes P450

## Solubility Information

Solubility	DMSO: 30 mg/mL (108.59 mM), Sonication is recommended. Ethanol: Soluble, ( $< 1$ 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 (7.24 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	3.6195 mL	18.0976 mL	36.1952 mL
5 mM	0.7239 mL	3.6195 mL	7.239 mL
10 mM	0.362 mL	1.8098 mL	3.6195 mL
50 mM	0.0724 mL	0.362 mL	0.7239 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

Ma Y, et al. Desmethoxyyangonin and dihydromethysticin are two major pharmacological kavalactones with marked activity on the induction of CYP3A23. Drug Metab Dispos. 2004 Nov;32(11):1317-24.

Sarris J, et al. Kava: a comprehensive review of efficacy, safety, and psychopharmacology. Aust N Z J Psychiatry. 2011 Jan;45(1):27-35.

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