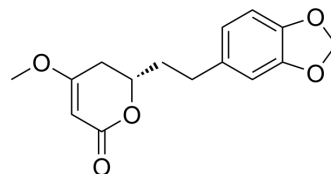


## Dihydromethysticin

Cat. No.:	HY-N0921
CAS No.:	19902-91-1
Molecular Formula:	C <sub>15</sub> H <sub>16</sub> O <sub>5</sub>
Molecular Weight:	276.28
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (361.95 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.6195 mL	18.0976 mL	36.1952 mL
		5 mM	0.7239 mL	3.6195 mL	7.2390 mL
		10 mM	0.3620 mL	1.8098 mL	3.6195 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (9.05 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.05 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.05 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Dihydromethysticin is one of the six major kavalactones found in the kava plant; has marked activity on the induction of CYP3A23.
IC <sub>50</sub> & Target	CYP3

### REFERENCES

[1]. Ma Y, et al. Desmethoxyyangonin and dihydromethysticin are two major pharmacological kavalactones with marked activity on the induction of CYP3A23. Drug Metab

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Dispos. 2004 Nov;32(11):1317-24.

[2]. Walden J, et al. Effects of kawain and dihydromethysticin on field potential changes in the hippocampus. Prog Neuropsychopharmacol Biol Psychiatry. 1997 May;21(4):697-706.

[3]. 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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**Caution: Product has not been fully validated for medical applications. For research use only.**

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