Data Sheet (Cat.No.TN7211)

TargetMol

Tetrahydroharmine

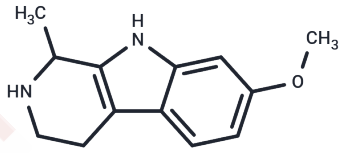
Chemical Properties

CAS No. : 17019-01-1

Formula: C13H16N2O

Molecular Weight: 216.28

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	Tetrahydroharmine (Leptaflorine) is a natural product found in the stems and large branches of Banisteriopsis caapi cultivar Da Vine. Tetrahydroharmine is a Monoamine oxidase A inhibitor.
Targets(IC50)	MAO

Solubility Information

Solubility	DMSO: 81.7 mg/mL (377.75 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: 8.17 mg/mL (37.78 mM),Solution. 10% DMSO+90% Saline: < 8.17 mg/mL (37.78 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6236 mL	23.1182 mL	46.2364 mL
5 mM	0.9247 mL	4.6236 mL	9.2473 mL
10 mM	0.4624 mL	2.3118 mL	4.6236 mL
50 mM	0.0925 mL	0.4624 mL	0.9247 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

Samoylenko V, et al. Banisteriopsis caapi, a unique combination of MAO inhibitory and antioxidative constituents for the activities relevant to neurodegenerative disorders and Parkinson's disease. J Ethnopharmacol. 2010 Feb 3; 127(2):357-67.

Jiang B, et al. Mechanism-based pharmacokinetics-pharmacodynamics studies of harmine and harmaline on neurotransmitters regulatory effects in healthy rats: Challenge on monoamine oxidase and acetylcholinesterase inhibition. Phytomedicine. 2019 Sep;62:152967.

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