Data Sheet (Cat.No.TN1099)

TargetMol
A DRUG SCREENING EXPERT

Dihydroevocarpine

Chemical Properties

CAS No.:	15266-35-0
Formula:	C23H35NO
Molecular Weight:	341.53
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Dihydroevocarpine shows potent anti-Helicobacter pylori activity with the minimum inhibitory concentration (MIC) value of 10-20 microg/ml. Dihydroevocarpine is a moderate modulator of p-glycoprotein (p-gp) activity; it shows more potent inhibitory effects against MAO-B compared to MAO-A.
Targets(IC_{50})	P-gp: None Antifection: None MAO: None
In vitro	Cytotoxicity was measured in a cell proliferation assay against CCRF-CEM leukemia cells and their p-gp over-expressing subline CEM/ADR5000. An assay monitoring the p-gp-dependent accumulation of the dye calcein in porcine brain capillary endothelial cells (PBCECs) was used to study interactions of the test substances with this efflux pump. Rutaecarpine and evodiamine showed quite high toxicity with IC (50) values from 2.64 to 4.53 microM and were weak modulators of p-gp activity[1]

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.928 mL	14.64 mL	29.28 mL
5 mM	0.586 mL	2.928 mL	5.856 mL
10 mM	0.293 mL	1.464 mL	2.928 mL
50 mM	0.059 mL	0.293 mL	0.586 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Cytotoxicity and p-glycoprotein modulating effects of quinolones and indoloquinazolines from the Chinese herb Evodia rutaecarpa.Planta Med. 2007 Dec;73(15):1554-7.

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