

Evocarpine

Chemical Properties

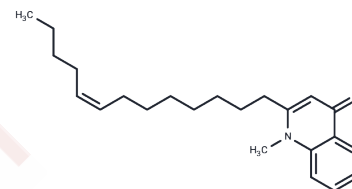
CAS No. : 15266-38-3

Formula: C₂₃H₃₃NO

Molecular Weight: 339.51

Storage: Keep away from moisture, Store at low temperature
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	Evocarpine shows antimycobacterial, and vasorelaxant effects, it can inhibit Ca ²⁺ influx through voltage-dependent calcium channels.
Targets(IC ₅₀)	Apoptosis,cAMP,Anti-infection,Calcium Channel,Antibacterial
In vitro	The antimycobacterial and modulating activity of evodiamine (1), rutaecarpine (2) and Evocarpine (3) was tested on mycobacteria including three multidrug-resistant (MDR) clinical isolates of Mycobacterium tuberculosis. Antagonistic effects were concluded from fractional inhibitory concentration (FICI) values. Interaction energies of the compounds were calculated using GLUE docking module implemented in GRID. 1 and 2 exhibited weak inhibition of rapidly growing mycobacteria, however, 1 was active against Myco. tuberculosis H37Rv (MIC = 10 mg l(-1)) while 2 was inactive. Both 1 and 2 showed a marked antagonistic effect on the susceptibility of different mycobacterial strains to 3 giving FICI values between 5 and 9. The interaction energies between compounds 1 and 2 with compound 3 suggested the possibility of complex formation in solution[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (147.27 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: 2 mg/mL (5.89 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	2.9454 mL	14.7271 mL	29.4542 mL
5 mM	0.5891 mL	2.9454 mL	5.8908 mL
10 mM	0.2945 mL	1.4727 mL	2.9454 mL
50 mM	0.0589 mL	0.2945 mL	0.5891 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

Antagonistic effects of indoloquinazoline alkaloids on antimycobacterial activity of evocarpine. J Appl Microbiol. 2015 Apr;118(4):864-72.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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