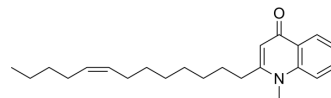


Evocarpine

Cat. No.:	HY-N2060
CAS No.:	15266-38-3
Molecular Formula:	C ₂₃ H ₃₃ NO
Molecular Weight:	339.51
Target:	Apoptosis; Bacterial
Pathway:	Apoptosis; Anti-infection
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 (294.54 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				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
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 (7.36 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.36 mM); Suspended solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.36 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Evocarpine, a quinolone alkaloid that could be isolated from Evodiae fructus, inhibits Ca ²⁺ influx through voltage-dependent calcium channels. Antimycobacterial activity ^{[1][2]} .
In Vitro	Cumulative application of evocarpine (1-100 μM) inhibits the sustained contraction induced by 60 mM K ⁺ in a concentration-dependent manner ^[1] . Evocarpine is found to induce apoptotic cell death in promyelocytic leukaemia HL60 cells in dose- and time-dependent manners ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. J Yamahar, et al. The vasorelaxant effect of evocarpine in isolated aortic strips: mode of action. *Eur J Pharmacol.* 1988 Oct 11;155(1-2):139-43.
- [2]. C Hochfellner, et al. Antagonistic effects of indoloquinazoline alkaloids on antimycobacterial activity of evocarpine. *J Appl Microbiol.* 2015 Apr;118(4):864-72.
- [3]. N Y Kim, et al. Cyclic adenosine monophosphate inhibits quinolone alkaloid evocarpine-induced apoptosis via activation of protein kinase A in human leukaemic HL-60 cells. *Pharmacol Toxicol.* 2000 Jul;87(1):1-5.
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Caution: Product has not been fully validated for medical applications. For research use only.

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