Allocryptopine

Cat. No.: HY-N1933

CAS No.: 485-91-6

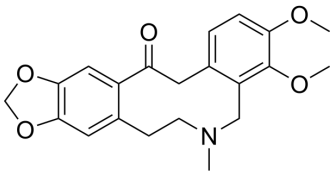
Molecular Formula: $C_{21}H_{23}NO_5$

Molecular Weight: 369.41

Target: Potassium Channel

Pathway: Membrane Transporter/Ion Channel

Storage: -20°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (135.35 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7070 mL	13.5351 mL	27.0702 mL
	5 mM	0.5414 mL	2.7070 mL	5.4140 mL
	10 mM	0.2707 mL	1.3535 mL	2.7070 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 (6.77 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.77 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Allocryptopine, a derivative of tetrahydropalmatine, is extracted from Macleaya cordata (Thunb.) Pers. Papaveraceae. Allocryptopine has antiarrhythmic effects and potently blocks human ether-a-go-go related gene (hERG) current[1][2].

REFERENCES

[1]. Xu B, et al. Effect of α-Allocryptopine on Delayed Afterdepolarizations and Triggered Activities in Mice Cardiomyocytes Treated with Isoproterenol. Evid Based Complement Alternat Med. 2015;2015:634172.

[2]. Lin K, et al. Allocryptopine and benzyltetrahydropalmatine block hERG potassium channels expressed in HEK293 cells. Acta Pharmacol Sin. 2013 Jun;34(6):847-58.

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