Talatisamine

Cat. No.: HY-N0663

CAS No.: 20501-56-8

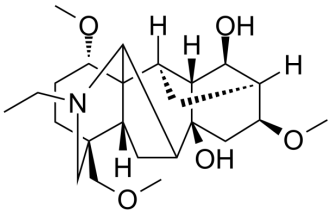
Molecular Formula: $C_{24}H_{39}NO_5$

Molecular Weight: 421.57

Target: Potassium Channel

Pathway: Membrane Transporter/Ion Channel

Storage: -20°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (118.60 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3721 mL	11.8604 mL	23.7209 mL
	5 mM	0.4744 mL	2.3721 mL	4.7442 mL
	10 mM	0.2372 mL	1.1860 mL	2.3721 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 (5.93 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Talatisamine, a aconitum alkaloid, is specific K^+ channel blocker. Talatisamine attenuates beta-amyloid oligomers induced neurotoxicity in cultured cortical neurons[1].

REFERENCES

[1]. Wang Y, et al. The newly identified K+ channel blocker talatisamine attenuates beta-amyloid oligomers induced neurotoxicity in cultured cortical neurons. Neurosci

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