Vomifoliol

Cat. No.: HY-N1077

CAS No.: 23526-45-6

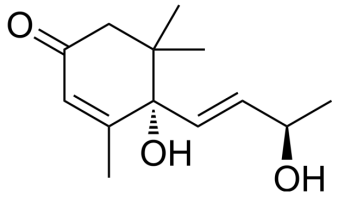
Molecular Formula: $C_{13}H_{20}O_3$

Molecular Weight: 224.3

Target: Endogenous Metabolite; Cholinesterase (ChE)

Pathway: Metabolic Enzyme/Protease; Neuronal Signaling

Storage: 4°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 (222.92 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.4583 mL	22.2916 mL	44.5831 mL
	5 mM	0.8917 mL	4.4583 mL	8.9166 mL
	10 mM	0.4458 mL	2.2292 mL	4.4583 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: ≥ 1.25 mg/mL (5.57 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (5.57 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.25 mg/mL (5.57 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Vomifoliol, a compound related to abscisie acid (ABA), has a modified 2,4-pentadiene side chain and has activity equal to that displayed by ABA. Vomifoliol exhibits antiacetylcholinesterase activity and displays moderate antileishmanial activity[1] [2].

REFERENCES

[1]. Stuart KL, et al. The effect of vomifoliol on stomatal aperture. Planta. 1975;122(3):307-310.

[2]. Mogana R, et al. The antiacetylcholinesterase and antileishmanial activities of Canarium patentinervium Miq. Biomed Res Int. 2014;2014:903529.

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