Lobelanine

Cat. No.: HY-N8505

CAS No.: 579-21-5

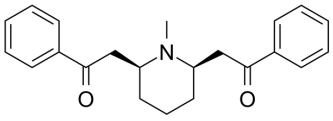
Molecular Formula: $C_{22}H_{25}NO_2$

Molecular Weight: 335.44

Target: Others

Pathway: Others

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5.56 mg/mL (16.58 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9812 mL	14.9058 mL	29.8116 mL
	5 mM	0.5962 mL	2.9812 mL	5.9623 mL
	10 mM	0.2981 mL	1.4906 mL	2.9812 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: ≥ 0.56 mg/mL (1.67 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 0.56 mg/mL (1.67 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 0.56 mg/mL (1.67 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Lobelanine (8,10-Diphenyllobelidione) is a chemical precursor for the biosynthesis of Lobeline. Lobeline is a partial nicotinic agonist and is used as a smoking cessation agent[1][2].

REFERENCES

[1]. Stead LF, et al. Lobeline for smoking cessation. Cochrane Database Syst Rev. 2012;2012(2):CD000124. Published 2012 Feb 15.

[2]. Guangrong Zheng, Peter A. Crooks. (2015) ChemInform Abstract: Synthesis of Lobeline, Lobelane and Their Analogues. A Review. ChemInform 46:42, pages no-no.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA