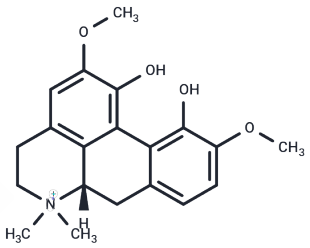
Data Sheet (Cat.No.T3S1319)

TargetMol

(+)-Magnoflorine

Chemical Properties



CAS No. : 2141-09-5

Formula: C20H24NO4

Molecular Weight: 342.41

Storage: Keep away from direct sunlight,Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	(+)-Magnoflorine (Thalictrin) has sedative and anxiolytic effects, probably mediated by Magnoflorine through a GABAergic mechanism of action. Magnoflorine and Sinomenine have protective effects, are mediated by some mechanism other than prevention of micelle formation or protection of the erythrocyte membrane against osmotic imbalance.
Targets(IC50)	Antifungal

Solubility Information

Solubility	DMSO: 34.24 mg/mL (100 mM),Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9205 mL	14.6024 mL	29.2048 mL
5 mM	0.5841 mL	2.9205 mL	5.841 mL
10 mM	0.292 mL	1.4602 mL	2.9205 mL
50 mM	0.0584 mL	0.292 mL	0.5841 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

PenA J B I D L , Lee H L , Seo Young Yoon, et al. The involvement of magnoflorine in the sedative and anxiolytic effects ofSinomeni Caulis et Rhizomain mice[J]. Journal of Natural Medicines, 2013, 67(4):814-821.
Gu D R, Yang H, Kim S C, et al. Water Extract of Piper longum Linn Ameliorates Ovariectomy-Induced Bone Loss by Inhibiting Osteoclast Differentiation. Nutrients. 2022, 14(17): 3667.
Kim Y J, Kim T I, Lee A, et al.Sinomenium acutum Modulates Platelet Aggregation and Thrombus Formation by Regulating the Glycoprotein VI-Mediated Signalosome in Mice.Pharmaceuticals.2023, 17(1): 6.
Cheng Y, Lu Z, Mao T, et al.Magnoflorine Ameliorates Chronic Kidney Disease in High-Fat and High-Fructose-Fed Mice by Promoting Parkin/PINK1-Dependent Mitophagy to Inhibit NLRP3/Caspase-1-Mediated Pyroptosis.Journal of Agricultural and Food Chemistry.2024