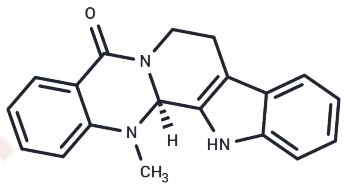
Data Sheet (Cat.No.T2868)

TargetMol

Evodiamine

Chemical Properties



CAS No. :	518-17-2
Formula:	C19H17N3O
Molecular Weight:	303.36
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	Evodiamine (d-Evodiamine) is an alkaloid isolated from the fruit of daylily and has a variety of biological activities including anti-inflammatory, anti-obesity and anti-tumor.
Targets(IC50)	Prostaglandin Receptor
In vitro	In mice, the LD50 of intravenously injected Evodiamine is 77 mg/kg.
In vivo	In U937 cells with overexpressed Bcl-2 and Akt, evodiamine induces apoptosis through a caspase-independent cell death pathway.
Cell Research	Evodiamine is dissolved in DMSO and diluted with appropriate medium before use. The evodiamine-inspired new scaffolds are assayed for growth inhibitory activities toward human cancer cell-lines A549 (lung cancer), MDA-MB-435 (breast cancer) and HCT116 (colon cancer) using the MTT assay. Evodiamine and camptithecin are used as reference drugs[1].

Solubility Information

Solubility	DMSO: 20.2 mg/mL (66.59 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2964 mL	16.4821 mL	32.9641 mL
5 mM	0.6593 mL	3.2964 mL	6.5928 mL
10 mM	0.3296 mL	1.6482 mL	3.2964 mL
50 mM	0.0659 mL	0.3296 mL	0.6593 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

Lee TJ, et al. Mol Cancer Ther, 2006, 5(9), 2398-407.
Takada Y, et al. J Biol Chem, 2005, 280(17), 17203-17212.
Dong G, et al. J Med Chem, 2010, 53(21), 7521-31.
Yang XW, et al. J Asian Nat Prod Res, 2006, 8(8), 697-703.
Li RF,et al. Effects of Evodiamine on the Pharmacokinetics of Dapoxetine and Its Metabolite Desmethyl Dapoxetine inRats. Pharmacology. 2016;97(1-2):43-7.
Shi L, et al. Evodiamine exerts anti-tumor effects against hepatocellular carcinoma through inhibiting β-catenin-mediated angiogenesis. Tumour Biol. 2016 Sep;37(9):12791-12803.

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