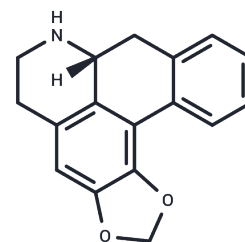


(-)-Anonaine

Chemical Properties

CAS No. : 1862-41-5
 Formula: C₁₇H₁₅NO₂
 Molecular Weight: 265.31
 Storage: 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	(-)-Anonaine can be extracted from several species of Magnoliaceae and Annelidae and has antimalarial, antibacterial, antifungal, antioxidant, anticancer, antidepressant and vasodilatory activities. (-)-Anonaine induces apoptosis in human cervical cancer (HeLa) cells, induces DNA damage and inhibits the growth and migration of human lung cancer H1299 cells through Bax and caspase-dependent pathways.
Targets(IC50)	Apoptosis,Antioxidant,Parasite,Antifungal,GST
In vitro	(-)-Anonaine (50-200 μM ; 24h ;) exhibited significant inhibition to cell growth and migration activities on human lung cancer H1299 cells.[1] (-)-Anonaine (10-200 μM) significant nuclear damages of H1299 cells were observed treatment in a comet assay, whereas higher concentrations (6 and 30 mM) of (-)-anonaine concentrations were required to cause DNA damages in an in vitro plasmid cleavage assay.[1]

Solubility Information

Solubility	DMSO: 2.66 mg/mL (10.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7692 mL	18.8459 mL	37.6918 mL
5 mM	0.7538 mL	3.7692 mL	7.5384 mL
10 mM	0.3769 mL	1.8846 mL	3.7692 mL
50 mM	0.0754 mL	0.3769 mL	0.7538 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

Chen BH, et al. (-)-Anonaine induces DNA damage and inhibits growth and migration of human lung carcinoma h1299 cells. *J Agric Food Chem.* 2011 ; 59(6):2284-2290.

Chen CY, et al. (-)-Anonaine induces apoptosis through Bax- and caspase-dependent pathways in human cervical cancer (HeLa) cells. *Food Chem Toxicol.* 2008 ; 46(8):2694-2702.

Lee JJ, et al. Effects of anonaine on dopamine biosynthesis and L-DOPA-induced cytotoxicity in PC12 cells. *Molecules.* 2008 ; 13(2):475-487.

Gontijo DC, et al. Antiplasmodial activity and cytotoxicity, isolation of active alkaloids, and dereplication of *Xylopi*a *sericea* leaves ethanol extract by UPLC-DAD-ESI-MS/MS. *J Pharm Pharmacol.* 2019 ; 71(2):260-269.

Gontijo DC, et al. Antiplasmodial activity and cytotoxicity, isolation of active alkaloids, and dereplication of *Xylopi*a *sericea* leaves ethanol extract by UPLC-DAD-ESI-MS/MS. *J Pharm Pharmacol.* 2019 ; 71(2):260-269.

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