

Hernandezine

Chemical Properties

CAS No. : 6681-13-6

Formula: C₃₉H₄₄N₂O₇

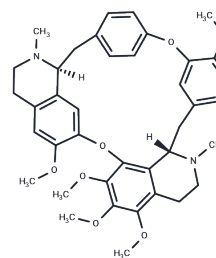
Molecular Weight: 652.78

Storage:

Store at low temperature, Keep away from direct sunlight

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	Hernandezine is an activator of AMPK activator and a selective reversing agent for ABCB1-mediated MDR in cancer cells.
Targets(IC50)	AMPK, P-gp, ROS, TNF
In vitro	Hernandezine inhibits LPS-induced TNF- α expression/production in human macrophage cell lines (THP-1 and U93). Hernandezine inhibits the transport function of ABCB1, and enhances drug-induced apoptosis in cancer cells. Hernandezine significantly resensitizes ABCB1-overexpressing cancer cells to multiple chemotherapeutic drugs at nontoxic, nanomolar concentrations[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5319 mL	7.6595 mL	15.3191 mL
5 mM	0.3064 mL	1.5319 mL	3.0638 mL
10 mM	0.1532 mL	0.766 mL	1.5319 mL
50 mM	0.0306 mL	0.1532 mL	0.3064 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

Hsiao SH, et al. Hernandezine, a Bisbenzylisoquinoline Alkaloid with Selective Inhibitory Activity against Multidrug-Resistance-Linked ATP-Binding Cassette Drug Transporter ABCB1. *J Nat Prod.* 2016 Aug 26;79(8):2135-42.

Ropivia J, et al. Isoquinolines from the roots of *Thalictrum flavum* L. and their evaluation as antiparasitic compounds. *Molecules.* 2010 Sep 16;15(9):6476-84.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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