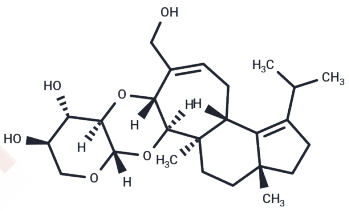
Data Sheet (Cat.No.T82446)

TargetMol

Erinacine C

Chemical Properties



CAS No. : 156101-09-6

Formula: C25H38O6

Molecular Weight: 434.57

Storage: 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	Erinacine C inhibits the NF-κB signaling pathway and activates the Nrf2 signaling pathway, exhibiting antioxidant, neuroprotective, and anti-inflammatory biological activities.
Targets(IC50)	NF-κB,Nrf2,ROS
In vitro	Erinacine C (0.1-10 μM, treated for 24 h) can inhibit the proliferation of BV2 microglial cells, reduce the production of NO, IL-6 and TNF-α induced by LPS in BV2 cells, and simultaneously promote the expression of HO-1 [2].
In vivo	Erinacine C (2 mg/kg, intraperitoneal injection for 5 consecutive days) can improve the motor function of rats with mild traumatic brain injury (mTBI) and exert a neuroprotective effect [3].

Solubility Information

Solubility	Ethanol: 8 mg/mL (18.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3011 mL	11.5056 mL	23.0113 mL
5 mM	0.4602 mL	2.3011 mL	4.6023 mL
10 mM	0.2301 mL	1.1506 mL	2.3011 mL
50 mM	0.046 mL	0.2301 mL	0.4602 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

Hiromichi Kenmoku, et al. Erinacine Q, a new erinacine from Hericium erinaceum, and its biosynthetic route to erinacine C in the basidiomycete. Biosci Biotechnol Biochem. 2002 Mar;66(3):571-5.
Wang LY, et al., Anti-Inflammatory Effect of Erinacine C on NO Production Through Down-Regulation of NF-κB and Activation of Nrf2-Mediated HO-1 in BV2 Microglial Cells Treated with LPS. Molecules. 2019 Sep 12;24(18):3317.
Lee KF, et al., The Cerebral Protective Effect of Novel Erinacines from Hericium erinaceus Mycelium on In Vivo Mild Traumatic Brain Injury Animal Model and Primary Mixed Glial Cells via Nrf2-Dependent Pathways. Antioxidants (Basel). 2024 Mar 19;13(3):371.