

Termitomycamide B

Chemical Properties

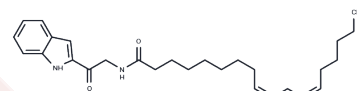
CAS No. : 1254277-89-8

Formula: C₂₈H₄₀N₂O₂

Molecular Weight: 436.63

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	Endoplasmic reticulum (ER) stress, caused by accumulation of misfolded proteins and a disruption of calcium homeostasis, has been linked to several neuronal diseases including, Parkinson's, Alzheimer's, and prion diseases. A screen for protective activity against ER stress-dependent cell death identified termitomycamides, extracts from the fruiting bodies of <i>T. titanicus</i> , a notably large edible mushroom that is cultivated symbiotically in the nests of termites. Termitomycamide B is a fatty acid isolated from <i>T. titanicus</i> that at a dose of 0.1 µg/ml protects against ER stress-dependent cell death in Neuro2a cells induced by tunicamycin.
Targets(IC50)	Others, GPCR

Solubility Information

Solubility	DMF: 20 mg/mL (45.81 mM), Sonication is recommended. DMSO: 20 mg/mL (45.81 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	2.2903 mL	11.4513 mL	22.9027 mL
5 mM	0.4581 mL	2.2903 mL	4.5805 mL
10 mM	0.229 mL	1.1451 mL	2.2903 mL
50 mM	0.0458 mL	0.229 mL	0.4581 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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