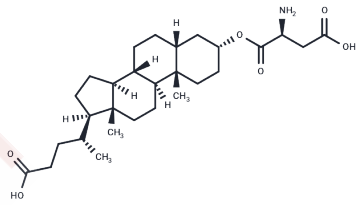
Data Sheet (Cat.No.T11858)

TargetMol

Lith-O-Asp

Chemical Properties



CAS No. : 881179-02-8

Formula: C28H45NO6

Molecular Weight: 491.66

Storage: Store at low temperature
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	Lith-O-Asp is a competitive, selective sialyltransferase inhibitor (ST3Gal Ki = 1.3 μM). It inhibits cancer cell adhesion and invasion by reducing surface sialylation in metastasis research.
Targets(IC50)	Transferase
In vitro	Lith-O-Asp inhibits sialyltransferases (IC50: 12-37 uM), blocking glycoprotein sialylation to interfere with pro-cancer signaling [1].
In vivo	Lith-O-Asp significantly reduces lung tumor nodules and bioluminescence signals in 4T1-Luc mouse models [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (162.71 mM),Sonication is recommmended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0339 mL	10.1696 mL	20.3393 mL
5 mM	0.4068 mL	2.0339 mL	4.0679 mL
10 mM	0.2034 mL	1.017 mL	2.0339 mL
50 mM	0.0407 mL	0.2034 mL	0.4068 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

Brandt MR, et al. Effects of the N-methyl-D-aspartate receptor antagonist perzinfotel [EAA-090; [2-(8,9-dioxo-2,6-diazabicyclo[5.2.0]non-1(7)-en-2-yl)-ethyl]phosphonic acid] on chemically induced thermal hypersensitivity. J Pharmacol Exp Ther. 2005 Jun;313(3):1379-86.

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