

3'-sulfo Galactosylsphingosine (ammonium salt)

Chemical Properties

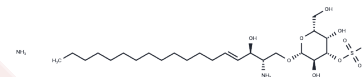
CAS No. : 1246681-32-2

Formula: C₂₄H₅₀N₂O₁₀S

Molecular Weight: 558.73

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	3'-sulfo Galactosylsphingosine is a form of sulfatide that is lacking the fatty acyl group. It decreases migration and adhesion of B35 neuroblastoma cells and increases cell rounding when used at a concentration of 20 μ M. It also inhibits PKC and cytochrome c oxidase activity when used at concentrations of 150 and 50-100 μ M, respectively. 3'-sulfo Galactosylsphingosine accumulates in patients with metachromatic leukodystrophy, a lysosomal storage disorder characterized by arylsulfatase A (ASA) deficiency leading to progressive demyelination and neuromotor deficits. In mice lacking ASA, levels of 3'-sulfo galactosylsphingosine increase after one month of age followed by demyelination and neuromotor deficits. 3'-sulfo Galactosylsphingosine has been used as a standard for the quantification of 3'-sulfo galactosylsphingosine by LC-MS.
Targets(IC50)	Others,Phospholipase

Solubility Information

Solubility	Chloroform:Methanol (2:1): Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7898 mL	8.9489 mL	17.8977 mL
5 mM	0.358 mL	1.7898 mL	3.5795 mL
10 mM	0.179 mL	0.8949 mL	1.7898 mL
50 mM	0.0358 mL	0.179 mL	0.358 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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