Data Sheet (Cat.No.T12937)

TargetMol

SMS1-IN-1

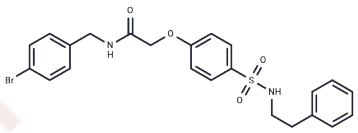
Chemical Properties

CAS No. : 1807943-38-9

Formula: C23H23BrN2O4S

Molecular Weight: 503.41

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	SMS1-IN-1 is a potent inhibitor of sphingomyelin synthase 1 (SMS1, IC50 = 2.1 μM), and can be used in the atherosclerosis studies.
Targets(IC50)	Others,Phospholipase
In vitro	SMS1-IN-1 (2.5, 10 and 50 μM) shows inhibitory effect against SMS1 in a dose-dependent manner[1].

Solubility Information

Solubility	DMSO: 150 mg/mL (297.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9865 mL	9.9323 mL	19.8645 mL
5 mM	0.3973 mL	1.9865 mL	3.9729 mL
10 mM	0.1986 mL	0.9932 mL	1.9865 mL
50 mM	0.0397 mL	0.1986 mL	0.3973 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

Li YL, et al. Discovery, synthesis and biological evaluation of 2-(4-(N-phenethylsulfamoyl)phenoxy)acetamides (SAPAs) as novel sphingomyelin synthase 1 inhibitors.Bioorg Med Chem. 2015 Sep 15;23(18):6173-84.

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