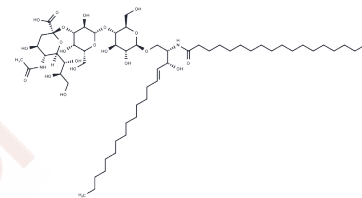


Ganglioside GM3

Chemical Properties

CAS No. :	124579-05-1
Formula:	C59H108N2O21
Molecular Weight:	1181.49
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	Ganglioside GM3 is a precursor of a, b, and c series gangliosides and interacts with transmembrane receptors such as epidermal growth factor and insulin receptors, modulating receptor function by creating specialized lipid environments. Synthesized by GM3 synthase, it can be used in studies related to hypercholesterolemia.
Targets(IC50)	IGF-1R
In vitro	Ganglioside GM3 is formed by the addition of sialic acid to LacCer and is predominantly found in adipose tissue and muscle in both humans and mice, as well as in the liver and serum in humans. The expression of GM3 in adipocytes is stimulated by inflammatory cytokines TNF- α and IL-1 β , originating from tissue macrophages.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8464 mL	4.2319 mL	8.4639 mL
5 mM	0.1693 mL	0.8464 mL	1.6928 mL
10 mM	0.0846 mL	0.4232 mL	0.8464 mL
50 mM	0.0169 mL	0.0846 mL	0.1693 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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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481