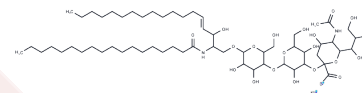


Ganglioside GM3 Mixture (sodium salt)

Chemical Properties

CAS No. :	54827-14-4
Formula:	C ₅₉ H ₁₀₇ N ₂ NaO ₂₁
Molecular Weight:	1203.488
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 monosialoganglioside that demonstrates antiproliferative and proapoptotic effects in tumor cells by modulating cell adhesion, proliferation, and differentiation. It suppresses angiogenesis and reduces proliferation and migration of human umbilical vein endothelial cells (HUVECs) when used at a concentration of 20 μ M via inhibition of VEGFR2 and Akt phosphorylation. Ganglioside GM3 induces dissociation of the insulin receptor-caveolin-1 complex from lipid microdomains, functioning as an inhibitor of insulin signaling and contributing to insulin resistance in adipocytes. Ganglioside GM3 mixture contains ganglioside GM3 molecular species with C18:1 and C20:1 fatty acyl chains.
Targets(IC50)	Others

Solubility Information

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

	1mg	5mg	10mg
1 mM	0.8309 mL	4.1546 mL	8.3092 mL
5 mM	0.1662 mL	0.8309 mL	1.6618 mL
10 mM	0.0831 mL	0.4155 mL	0.8309 mL
50 mM	0.0166 mL	0.0831 mL	0.1662 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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