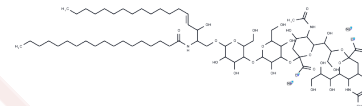


## Ganglioside GD3 Mixture (sodium salt)

## Chemical Properties

CAS No. :	62010-37-1
Formula:	C70H123N3Na2O29
Molecular Weight:	1516.726
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 GD3 is synthesized by the addition of two sialic acid residues to lactosylceramide and can serve as a precursor to the formation of more complex gangliosides by the action of glycosyl- and sialyltransferases. It induces apoptosis in HuT-78 cutaneous T cell lymphoma cells in a concentration-dependent manner and disrupts the mitochondrial membrane potential when used at a concentration of 200 $\mu$ M. Expression of ganglioside GD3 in GD3-negative SK-MEL-28-N1 malignant melanoma cells increases both cell proliferation and invasion in vitro. Ganglioside GD3-deficient adult mice exhibit progressive loss of the neural stem cell (NSC) pool and impaired neurogenesis. Ganglioside GD3 mixture contains ganglioside GD3 molecular species with C18:1 and C20:1 sphingoid backbones.
Targets(IC50)	Others

## Solubility Information

Solubility	Chloroform:Methanol (1:1): Soluble H2O: Soluble ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.6593 mL	3.2966 mL	6.5931 mL
5 mM	0.1319 mL	0.6593 mL	1.3186 mL
10 mM	0.0659 mL	0.3297 mL	0.6593 mL
50 mM	0.0132 mL	0.0659 mL	0.1319 mL

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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.

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