Data Sheet (Cat.No.T35553)



Ganglioside GQ1b Mixture (sodium salt)

Chemical Properties

CAS No.: 68652-37-9

Formula: C106H178N6O554Na

Molecular Weight: 2508.5

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description

Ganglioside GQ1b is a tetrasialoganglioside that contains two sialic acid residues linked to an inner galactose unit. It stimulates phosphorylation of several ecto-type protein kinase substrates on the surface of GOTO human neuroblastoma cells when used at a concentration of 5 nM. Ganglioside GQ1b promotes differentiation of murine embryonic stem cells (mESCs) to neuronal precursor and glial cells via activation of the ERK1/2 pathway. It also induces differentiation of murine keratinocytes through phosphoinositide turnover. Ganglioside GQ1b mixture contains ganglioside GQ1b molecular species with C18:1 and C20:1 sphingoid backbones.

Solubility Information

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Chloroform: Methanol (2:1): Soluble

H20: Soluble

(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3986 mL	1.9932 mL	3.9864 mL
5 mM	0.0797 mL	0.3986 mL	0.7973 mL
10 mM	0.0399 mL	0.1993 mL	0.3986 mL
50 mM	0.008 mL	0.0399 mL	0.0797 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.

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Page 1 of 1 www.targetmol.com