

KBC-007

Chemical Properties

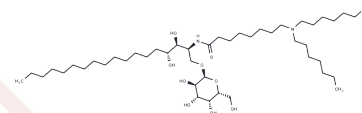
CAS No. : 1037297-61-2

Formula: C₄₆H₉₂N₂O₉

Molecular Weight: 817.247

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	KBC-007 is a synthetic branched chain-containing analog of α -galactosylceramide (α -GalCer). It induces IL-4 and IFN- γ secretion by mouse splenocytes when used at a concentration of 0.5 ng/ml and IL-2 secretion by DN32.D3 NKT hybridoma cells co-cultured with CD1d-transfected RBL cells pre-loaded with KBC-007 at a concentration of 8 ng/ml. KBC-007 (1 μ g per animal) increases levels of IL-4, but not IFN- γ , to a similar degree as α -GalCer in mouse serum. KBC-007 (0.5 μ g per animal) increases the survival rate of mice immunized with the inactivated influenza A virus A/PR/8/34 in a model of influenza infection.
Targets(IC50)	Others

Solubility Information

Solubility	Ethanol: 12 mg/mL (14.68 mM),Sonication is recommended. DMSO: 20 mg/mL (24.47 mM),Sonication is recommended. H ₂ O: 18 mg/mL (22.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2236 mL	6.1181 mL	12.2362 mL
5 mM	0.2447 mL	1.2236 mL	2.4472 mL
10 mM	0.1224 mL	0.6118 mL	1.2236 mL
50 mM	0.0245 mL	0.1224 mL	0.2447 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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