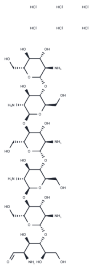
Data Sheet (Cat.No.T37253)

TargetMol

Chitohexaose hexahydrochloride

Chemical Properties



CAS No. : 127171-88-4

Formula: C36H74Cl6N6O25

Molecular Weight: 1203.71

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	Chitohexaose hexahydrochloride is a chitosan oligosaccharide compound with anti-inflammatory properties, achieved by binding to the active sites of TLR4 and thereby inhibiting LPS-induced inflammation, as supported by references [1] and [2].
Targets(IC50)	Others,TLR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8308 mL	4.1538 mL	8.3076 mL
5 mM	0.1662 mL	0.8308 mL	1.6615 mL
10 mM	0.0831 mL	0.4154 mL	0.8308 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.

Reference

Qini Zhao, et al. Chitoheptaose Promotes Heart Rehabilitation in a Rat Myocarditis Model by Improving Antioxidant, Anti-Inflammatory, and Antiapoptotic Properties. Oxid Med Cell Longev. 2020 Apr 11;2020:2394704.
Santosh K Panda, et al. Chitohexaose activates macrophages by alternate pathway through TLR4 and blocks endotoxemia. PLoS Pathog. 2012;8(5):e1002717.

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