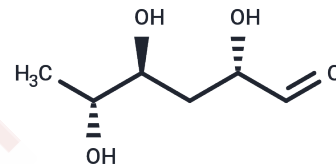


Tyvelose

Chemical Properties

CAS No. :	5658-12-8
Formula:	C ₆ H ₁₂ O ₄
Molecular Weight:	148.16
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	Tyvelose is an unusual 3,6-dideoxyhexose terminal sugar and the immunodominant component of glycoprotein antigens in the parasitic helminth <i>T. spiralis</i> , which is responsible for trichinosis in humans. It is produced in high amounts by the infective larva and is immunodominant during the muscle stage of infection. Mice immunized with tyvelose-BSA produce IgG1 antibodies to tyvelose but are not resistant to infection by <i>T. spiralis</i> . Tyvelose-specific antibodies (2.5 mg/20 g) administered to rat pups leads to expulsion of first stage larvae from the intestine within one hour.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 20 mg/mL (134.99 mM),Sonication is recommended. Ethanol: 10 mg/mL (67.49 mM),Sonication is recommended. DMF: 20 mg/mL (134.99 mM),Sonication is recommended. PBS (pH 7.2): 10 mg/mL (67.49 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	6.7495 mL	33.7473 mL	67.4946 mL
5 mM	1.3499 mL	6.7495 mL	13.4989 mL
10 mM	0.6749 mL	3.3747 mL	6.7495 mL
50 mM	0.135 mL	0.6749 mL	1.3499 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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