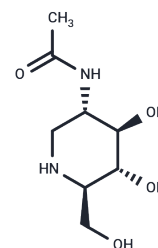


DNJNAC

Chemical Properties

CAS No. :	105265-96-1
Formula:	C ₈ H ₁₆ N ₂ O ₄
Molecular Weight:	204.22
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	DNJNAC, also known as 2-Acetamido-1,2-dideoxynojirimycin, is a highly potent and specific inhibitor of β -hexosaminidase (HEX). HEX enzymes catalyze the hydrolysis of terminal non-reducing N-acetyl- β -D-glucosamine (GlcNAc) and N-acetyl- β -D-galactosamine (GalNAc) residues from glycoconjugates such as glycoproteins, gangliosides, and glycosaminoglycans. HEX secreted by chondrocytes into the extracellular space contributes to cartilage matrix degradation, and HEX activity is elevated in the synovial fluid of osteoarthritis patients.
Targets(IC50)	Hexokinase, glycosidase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8967 mL	24.4834 mL	48.9668 mL
5 mM	0.9793 mL	4.8967 mL	9.7934 mL
10 mM	0.4897 mL	2.4483 mL	4.8967 mL
50 mM	0.0979 mL	0.4897 mL	0.9793 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

Alex de la Fuente, et al. Stereoselective synthesis of 2-acetamido-1,2-dideoxynojirimycin (DNJNAC) and ureido-DNJNAC derivatives as new hexosaminidase inhibitors. *Org Biomol Chem*. 2015 Jun 21;13(23):6500-10.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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