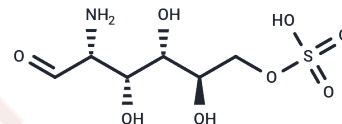


Glucosamine 6-sulfate

Chemical Properties

CAS No. :	91674-26-9
Formula:	C ₆ H ₁₃ NO ₈ S
Molecular Weight:	259.23
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Glucosamine 6-sulfate (GlcN6S) is a glucosamine derivative exhibiting anti-inflammatory effects in experimental autoimmune encephalomyelitis (EAE). It inhibits gene expression of IL-12, T-bet, and IFN- γ , suppresses Th1 CD4 T cell differentiation, and may be utilised in multiple sclerosis (MS) research.
Targets(IC50)	COX,IL Receptor,Immunology/Inflammation related

Solubility Information

Solubility	PBS (pH 7.2): 5 mg/mL (19.29 mM),Sonication is recommended. H ₂ O: 200 mg/mL (771.52 mM) DMF: 0.5 mg/mL (1.93 mM),Sonication is recommended. DMSO: 2 mg/mL (7.72 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	3.8576 mL	19.2879 mL	38.5758 mL
5 mM	0.7715 mL	3.8576 mL	7.7152 mL
10 mM	0.3858 mL	1.9288 mL	3.8576 mL
50 mM	0.0772 mL	0.3858 mL	0.7715 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

Khan MA, et al. Two Small RNAs Conserved in Enterobacteriaceae Provide Intrinsic Resistance to Antibiotics Targeting the Cell Wall Biosynthesis Enzyme Glucosamine-6-Phosphate Synthase. *Front Microbiol.* 2016 Jun 15;7:908.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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