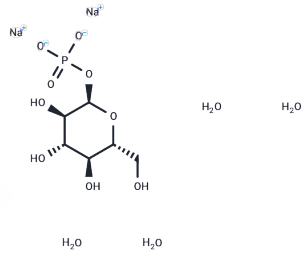
Data Sheet (Cat.No.T35416)

TargetMol

α-D-Glucose-1-phosphate sodium hydrate

Chemical Properties



CAS No. : 150399-99-8

Formula: C6H19Na2O13P

Molecular Weight: 376.16

Storage: Keep away from direct sunlight,Keep away from moisture
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	α-D-Glucose-1-phosphate sodium hydrate (Glucose-1-phosphate sodium hydrate) is an intermediate in glycogen metabolism and a precursor in UDP-glucose biosynthesis.
Targets(IC50)	Others

Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL (26.58 mM),Sonication is recommended. H2O: 8 mg/mL (21.27 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6584 mL	13.2922 mL	26.5844 mL
5 mM	0.5317 mL	2.6584 mL	5.3169 mL
10 mM	0.2658 mL	1.3292 mL	2.6584 mL
50 mM	0.0532 mL	0.2658 mL	0.5317 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

Nihira T, et al. 2-O-α-D-glucosylglycerol phosphorylase from Bacillus selenitireducens MLS10 possessing hydrolytic activity on β-D-glucose 1-phosphate. PLoS One. 2014 Jan 22;9(1):e86548.
H-J Shin, et al. Formation of α-D-glucose-1-phosphate by thermophilic α-1,4-D-glucan phosphorylase, Journal of Industrial Microbiology and Biotechnology, Volume 24, Issue 2, 1 February 2000, Pages 89–93
Koropatkin, N.M., and Holden, H.M.Molecular structure of -D-glucose-1-phosphate cytidylyltransferase from Salmonella typhiJ. Biol. Chem.279(42)44023-44029(2004)
Goedl, C., Schwarz, A., Minani, A., et al.Recombinant sucrose phosphorylase from Leuconostoc mesenteroides: Characterization, kinetic studies of transglucosylation, and application of immobilised enzyme for production of -D-glucose 1-phosphateJ. Biotechnol.129(1)77-86(2007)

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