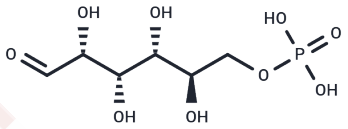
Data Sheet (Cat.No.T19263)

TargetMol

D-Glucose 6-phosphate

Chemical Properties



CAS No. : 56-73-5

Formula: C6H13O9P

Molecular Weight: 260.14

Storage: Store at low temperature
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	D-Glucose 6-phosphate (G6P) is glucose that hydroxyl group on carbon 6 is phosphorylated by hexose kinase and is involved in glycolysis, gluconeogenesis, and the pentose phosphate pathway, as well as being converted to glycogen or starch storage. G6P serves as a substrate for glucose 6-phosphatase in the liver and hexose 6-phosphate dehydrogenase (H6PDH) in the lumen of the endoplasmic reticulum.
Targets(IC50)	Endogenous Metabolite,Phosphatase

Solubility Information

Solubility	H2O: 180 mg/mL (691.94 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8441 mL	19.2204 mL	38.4408 mL
5 mM	0.7688 mL	3.8441 mL	7.6882 mL
10 mM	0.3844 mL	1.922 mL	3.8441 mL
50 mM	0.0769 mL	0.3844 mL	0.7688 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

Olsen BB, et al. Linked Hexokinase and Glucose-6-Phosphatase Activities Reflect Grade of Ovarian Malignancy. Mol Imaging Biol. 2018 Jul 9.

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