

D-Glyceraldehyde 3-phosphate

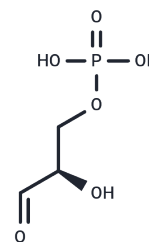
Chemical Properties

CAS No. : 591-57-1

Formula: C₃H₇O₆P

Molecular Weight: 170.06

Storage: Store at low temperature, Keep away from direct sunlight, High Volatility
 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-Glyceraldehyde 3-phosphate is a central metabolite in cellular energy metabolism, serving as a key intermediate in glycolysis, gluconeogenesis, and the Calvin cycle. D-Glyceraldehyde 3-phosphate also contributes to biosynthetic pathways such as tryptophan and thiamin synthesis, making it an essential molecule in biochemical and metabolic research.
Targets(IC50)	Others, Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.8803 mL	29.4014 mL	58.8028 mL
5 mM	1.1761 mL	5.8803 mL	11.7606 mL
10 mM	0.588 mL	2.9401 mL	5.8803 mL
50 mM	0.1176 mL	0.588 mL	1.1761 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

Kopelovich L, et al. Kinetics of the inhibition of aspartate aminotransferase isozymes by DL-glyceraldehyde 3-phosphate. *Eur J Biochem.* 1971 Jun 11;20(3):351-62.

Armstrong JM, et al. The reactions of D-glyceraldehyde 3-phosphate with thiols and the holoenzyme of D-glyceraldehyde 3-phosphate dehydrogenase and of inorganic phosphate with the acyl-holoenzyme. *Biochem J.* 1976 Dec 1;159(3):513-27.

Trentham DR, et al. The active chemical state of D-glyceraldehyde 3-phosphate in its reactions with D-glyceraldehyde 3-phosphate dehydrogenase, aldolase and triose phosphate isomerase. *Biochem J.* 1969 Aug;114(1):19-24.

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