

DL-Glyceraldehyde-3-phosphate

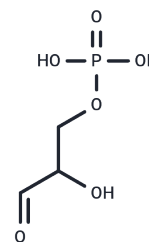
Chemical Properties

CAS No. : 591-59-3

Formula: C₃H₇O₆P

Molecular Weight: 170.06

Storage: Store at low temperature, 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	DL-Glyceraldehyde-3-phosphate (3-Phosphoglyceraldehyde) is an important intermediate in glycogen or starch fermentation in organisms and inhibits acyltransferases. DL-Glyceraldehyde-3-phosphate inhibits the growth of Escherichia coli at high concentrations.
Targets(IC50)	Endogenous Metabolite, Antibacterial, Acyltransferase

Solubility Information

Solubility	H ₂ O: 10 mg/mL (58.8 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	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

L Kopelovich, 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.

C T Tang, et al. L-Glyceraldehyde 3-phosphate, a bactericidal agent. Antimicrob Agents Chemother. 1977 Jan;11(1):147-53.

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