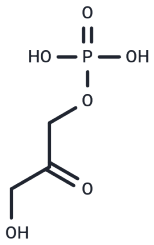
Data Sheet (Cat.No.T19281)

TargetMol

Dihydroxyacetone phosphate

Chemical Properties



CAS No. : 57-04-5

Formula: C3H7O6P

Molecular Weight: 170.06

Storage: Store at low temperature,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	Dihydroxyacetone phosphate is a key intermediate in lipid biosynthesis and glycolysis, involved in metabolic pathways including the Calvin cycle and glycolysis in plants, and its levels are affected by congenital transaldolase deficiency, making it a central molecule for biochemical and metabolic studies.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H2O: ≥ 80 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

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

Qungang Qi,et al. The role of the triose-phosphate shuttle and glycolytic intermediates in fatty-acid and glycerolipid biosynthesis in pea root plastids.S.A. Planta (1994) 194: 193.
Dihydroxyacetone phosphate

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