

3-Phosphoglyceric acid

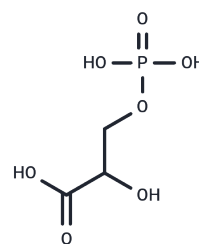
Chemical Properties

CAS No. : 820-11-1

Formula: C₃H₇O₇P

Molecular Weight: 186.06

Storage: Store at low temperature, 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	3-Phosphoglyceric acid is a metabolic intermediate in glycolysis and the Calvin cycle, and it is also involved in alveolar macrophage epigenetic regulation.
Targets(IC50)	Others, Endogenous Metabolite
In vitro	In bone marrow-derived macrophages (BMDMs), 3-phosphoglyceric acid (400 μM; 24 hours) enhanced Spp1 transcription in VHL-deficient macrophages and also reversed the reduction of H3K4me3 modification[1].

Solubility Information

Solubility	H ₂ O: 80 mg/mL (429.97 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	5.3746 mL	26.8731 mL	53.7461 mL
5 mM	1.0749 mL	5.3746 mL	10.7492 mL
10 mM	0.5375 mL	2.6873 mL	5.3746 mL
50 mM	0.1075 mL	0.5375 mL	1.0749 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

Zhang W, et al. The E3 ligase VHL controls alveolar macrophage function via metabolic-epigenetic regulation. J Exp Med. 2018 Dec 3;215(12):3180-3193.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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