

DL-Glyceric Acid

Chemical Properties

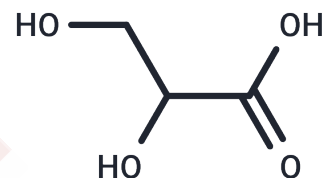
CAS No. : 473-81-4

Formula: C₃H₆O₄

Molecular Weight: 106.08

Storage: 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-Glyceric Acid is an endogenous metabolite that serves as a substrate for Pseudomonas aeruginosa's 3-hydroxyisobutyrate dehydrogenase (PA0743), catalyzing the reaction (K _m = 19.8 mM).
Targets(IC50)	Endogenous Metabolite,Dehydrogenase

Solubility Information

Solubility	DMSO: 250 mg/mL (2356.71 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (94.27 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.4268 mL	47.1342 mL	94.2685 mL
5 mM	1.8854 mL	9.4268 mL	18.8537 mL
10 mM	0.9427 mL	4.7134 mL	9.4268 mL
50 mM	0.1885 mL	0.9427 mL	1.8854 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

Rashed MS, et al. Chiral liquid chromatography tandem mass spectrometry in the determination of the configuration of glyceric acid in urine of patients with D-glyceric and L-glyceric acidurias. Biomed Chromatogr. 2002 May;16(3):191-8.

Sato S, et, al. Microbial resolution of DL-glyceric acid for L-glyceric acid production with newly isolated bacterial strains. J Biosci Bioeng. 2015 May;119(5):554-7.

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