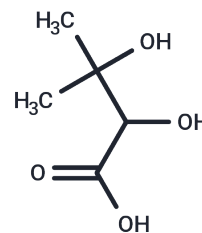


2,3-dihydroxy-3-methylbutanoic acid

Chemical Properties

CAS No. :	1756-18-9
Formula:	C ₅ H ₁₀ O ₄
Molecular Weight:	134.1305
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	2,3-dihydroxy-3-methylbutanoic acid is a natural metabolite of the branched-chain amino acid leucine. It acts by activating the mTOR signaling pathway to promote the synthesis of new muscle proteins and reduce the breakdown of existing proteins, thereby increasing muscle mass and improving recovery from exercise.
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 55 mg/mL (410.05 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	7.4555 mL	37.2773 mL	74.5545 mL
5 mM	1.4911 mL	7.4555 mL	14.9109 mL
10 mM	0.7455 mL	3.7277 mL	7.4555 mL
50 mM	0.1491 mL	0.7455 mL	1.4911 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

Armstrong F B , Muller U S , Reary J B , et al. Stereoselectivity and stereospecificity of the α,β -dihydroxyacid dehydratase and from Salmonella typhimurium[J]. Biochim.biophys.acta, 1977, 498(2):282-293.

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