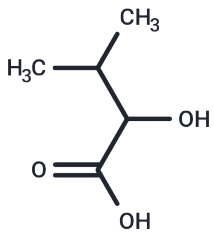
Data Sheet (Cat.No.T5273)

TargetMol

2-Hydroxy-3-methylbutanoic acid

Chemical Properties



CAS No. : 4026-18-0

Formula: C5H10O3

Molecular Weight: 118.13

Storage: 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	2-Hydroxy-3-methylbutyric acid is a structural analog of GHB, a naturally occurring substance found in the central nervous system, and a nootropic.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 250 mg/mL (2116.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (8.47 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.4653 mL	42.3263 mL	84.6525 mL
5 mM	1.6931 mL	8.4653 mL	16.9305 mL
10 mM	0.8465 mL	4.2326 mL	8.4653 mL
50 mM	0.1693 mL	0.8465 mL	1.6931 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

Magni F, et al. Simultaneous determination of plasma levels of alpha-ketoisocaproic acid and leucine and evaluation of alpha-[1-13C]ketoisocaproic acid and [1-13C]leucine enrichment by gas chromatography-mass spectrometry. Anal Biochem. 1994 Aug 1;220(2):308-14.

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