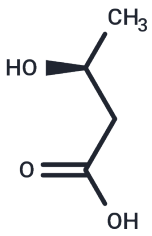
Data Sheet (Cat.No.T13979)

TargetMol

(S)-3-Hydroxybutanoic acid

Chemical Properties



CAS No. : 6168-83-8

Formula: C4H8O3

Molecular Weight: 104.1

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	(S)-3-Hydroxybutanoic acid (L-(+)-3-Hydroxybutyric acid) is a normal human metabolite that has been found elevated in geriatric patients remitting from depression. (S)-3-Hydroxybutanoic acid is synthesized in the liver from acetyl-CoA in humans, and can be used as an energy source by the brain when blood glucose is low.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H2O: 257.5 mg/mL (2473.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.6061 mL	48.0307 mL	96.0615 mL
5 mM	1.9212 mL	9.6061 mL	19.2123 mL
10 mM	0.9606 mL	4.8031 mL	9.6061 mL
50 mM	0.1921 mL	0.9606 mL	1.9212 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

Hinton T, et al. Enantioselective actions of 4-amino-3-hydroxybutanoic acid and (3-amino-2-hydroxypropyl) methylphosphinic acid at recombinant GABA(C) receptors. Bioorg Med Chem Lett. 2008 Jan 1;18(1):402-4.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481