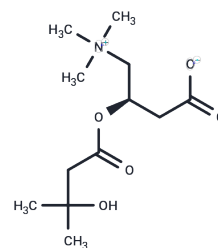


3-Hydroxyisovalerylcarnitine

Chemical Properties

CAS No. :	99159-87-2
Formula:	C ₁₂ H ₂₃ NO ₅
Molecular Weight:	261.32
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	3-Hydroxyisovalerylcarnitine is a carnitine derivative that may serve as a novel biomarker for biotin deficiency in humans, with its concentration increasing in such conditions. Biotin deficiency reduces the activity of biotin-dependent 3-methylcrotonyl-CoA carboxylase, hindering the conversion of 3-methylcrotonyl-CoA into 3-methylglutaconyl-CoA, and impairing the leucine catabolism pathway, resulting in elevated plasma 3-Hydroxyisovalerylcarnitine concentrations [1].
Targets(IC50)	Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8267 mL	19.1336 mL	38.2673 mL
5 mM	0.7653 mL	3.8267 mL	7.6535 mL
10 mM	0.3827 mL	1.9134 mL	3.8267 mL
50 mM	0.0765 mL	0.3827 mL	0.7653 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.

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