

3-Methylcrotonylglycine

Chemical Properties

CAS No. :	33008-07-0
Formula:	C7H11NO3
Molecular Weight:	157.17
Storage:	Keep away from moisture, Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	3-Methylcrotonylglycine is an organic acid conjugate associated with leucine catabolism; it is formed by the conjugation of 3-methylcrotonyl-CoA with glycine and is commonly used as a biomarker in organic acid metabolism analysis. Elevated levels of this compound may be observed in disorders involving branched-chain amino acid metabolism, such as 3-methylcrotonyl-CoA carboxylase deficiency, and it is therefore frequently used in metabolomics and research on inborn errors of metabolism.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H2O: 10 mg/mL (63.63 mM),Sonication is recommended. DMSO: 80 mg/mL (509 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	6.3625 mL	31.8127 mL	63.6254 mL
5 mM	1.2725 mL	6.3625 mL	12.7251 mL
10 mM	0.6363 mL	3.1813 mL	6.3625 mL
50 mM	0.1273 mL	0.6363 mL	1.2725 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

Gallardo ME, et al. The molecular basis of 3-methylcrotonylglycinuria, a disorder of leucine catabolism. Am J Hum Genet. 2001 Feb;68(2):334-46.

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