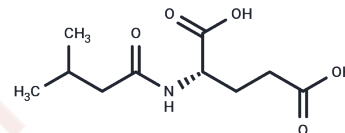


N-Isovalerylglutamic acid

Chemical Properties

CAS No. :	80154-63-8
Formula:	C ₁₀ H ₁₇ NO ₅
Molecular Weight:	231.25
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	N-Isovalerylglutamic acid is an N-acylated derivative of glutamic acid, formed by the reaction of an isovaleryl group with the amino group of glutamic acid. N-Isovalerylglutamic acid belongs to the class of organic acids associated with branched-chain amino acid metabolism.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3243 mL	21.6216 mL	43.2432 mL
5 mM	0.8649 mL	4.3243 mL	8.6486 mL
10 mM	0.4324 mL	2.1622 mL	4.3243 mL
50 mM	0.0865 mL	0.4324 mL	0.8649 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

- Niederwieser A, Steinmann B, Exner U, Neuheiser F, Redweik U, Wang M, Rampini S, Wendel U. Multiple acyl-Co A dehydrogenation deficiency (MADD) in a boy with nonketotic hypoglycemia, hepatomegaly, muscle hypotonia and cardiomyopathy. Detection of N-isovalerylglutamic acid and its monoamide. *Helv Paediatr Acta*. 1983 Mar;38(1):9-26. PubMed PMID: 6862997.
- Lehnert W. Excretion of N-isovalerylglutamic acid in isovaleric acidemia. *Clin Chim Acta*. 1981 Oct 26;116(2):249-52. PubMed PMID: 7296890.

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