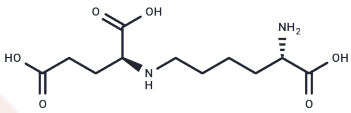
Data Sheet (Cat.No.T32900)

TargetMol

Saccharopine

Chemical Properties



CAS No. : 997-68-2

Formula: C11H20N2O6

Molecular Weight: 276.29

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	L-Saccharopine is a product of the breakdown of essential amino acid Lysine.
Targets(IC50)	Others,Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6194 mL	18.0969 mL	36.1939 mL
5 mM	0.7239 mL	3.6194 mL	7.2388 mL
10 mM	0.3619 mL	1.8097 mL	3.6194 mL
50 mM	0.0724 mL	0.3619 mL	0.7239 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

Sato T, Ito Y, Nagasawa T. Regulatory effects of the L-lysine metabolites, L-2-aminoadipic acid and L-pipecolic acid, on protein turnover in C2C12 myotubes. Biosci Biotechnol Biochem. 2016 Jul 18:1-8. [Epub ahead of print] PubMed PMID: 27427787.

Pena IA, Marques LA, Laranjeira AB, Yunes JA, Eberlin MN, Arruda P. Simultaneous detection of lysine metabolites by a single LC-MS/MS method: monitoring lysine degradation in mouse plasma. Springerplus. 2016 Feb 25;5:172. doi: 10.1186/s40064-016-1809-1. eCollection 2016. PubMed PMID: 27026869; PubMed Central PMCID: PMC4766172.

Kumar VP, Thomas LM, Bobyk KD, Andi B, Cook PF, West AH. Evidence in support of lysine 77 and histidine 96 as acid-base catalytic residues in saccharopine dehydrogenase from Saccharomyces cerevisiae. Biochemistry. 2012 Jan 31;51(4):857-66. doi: 10.1021/bi201808. Epub 2012 Jan 23. PubMed PMID: 22243403; PubMed Central PMCID: PMC3297426.

Yoshida N, Akazawa S, Katsuragi T, Tani Y. Characterization of two fructosyl-amino acid oxidase homologs of Schizosaccharomyces pombe. J Biosci Bioeng. 2004;97(4):278-80. PubMed PMID: 16233628.

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