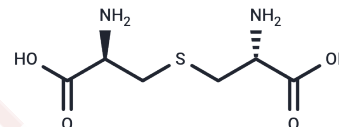


Lanthionine

Chemical Properties

CAS No. :	922-55-4
Formula:	C ₆ H ₁₂ N ₂ O ₄ S
Molecular Weight:	208.24
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Lanthionine is a naturally occurring non-protein amino acid formed by the cross-linking of two alanine residues via a thioether bond at the β-carbon atom. It constitutes the key component of the cyclic peptide antibiotic lantibiotic. Lanthionine exhibits inhibitory activity against diaminopimelate (DAP) epimerase, with a K _i value of 420 μM.
Targets(IC50)	Amino Acids and Derivatives, Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8022 mL	24.0108 mL	48.0215 mL
5 mM	0.9604 mL	4.8022 mL	9.6043 mL
10 mM	0.4802 mL	2.4011 mL	4.8022 mL
50 mM	0.096 mL	0.4802 mL	0.9604 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

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- Ebner P, et al. Lantibiotic production is a burden for the producing staphylococci. Sci Rep. 2018 May 10;8(1):7471.
- Luckose F, et al. Effects of amino acid derivatives on physical, mental, and physiological activities. Crit Rev Food Sci Nutr. 2015;55(13):1793-807.

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