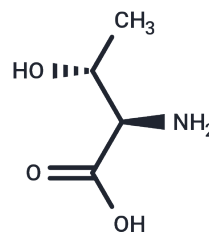


allo-DL-Threonine

Chemical Properties

CAS No. :	144-98-9
Formula:	C ₄ H ₉ NO ₃
Molecular Weight:	119.12
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	allo-DL-Threonine is a racemic mixture of the D and L isomers of threonine, a polar essential amino acid.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.3949 mL	41.9745 mL	83.949 mL
5 mM	1.679 mL	8.3949 mL	16.7898 mL
10 mM	0.8395 mL	4.1974 mL	8.3949 mL
50 mM	0.1679 mL	0.8395 mL	1.679 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

- Malinovsky AV. Why Threonine Is an Essential Amino Acid in Mammals and Birds: Studies at the Enzyme Level. *Biochemistry (Mosc)*. 2018 Jul;83(7):795-799. doi: 10.1134/S0006297918070039. Review. PubMed PMID: 30200864.
- Malinovsky AV. Reason for Indispensability of Threonine in Humans and Other Mammals in Comparative Aspect. *Biochemistry (Mosc)*. 2017 Sep;82(9):1055-1060. doi: 10.1134/S0006297917090097. Review. PubMed PMID: 28988535.
- Rosenthal RG, Vögeli B, Wagner T, Shima S, Erb TJ. A conserved threonine prevents self-intoxication of enoyl-thioester reductases. *Nat Chem Biol*. 2017 Jul;13(7):745-749. doi: 10.1038/nchembio.2375. Epub 2017 May 15. PubMed PMID: 28504678; PubMed Central PMCID: PMC5892710.

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