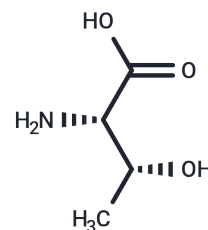


L-Threonine

Chemical Properties

CAS No. :	72-19-5
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	L-Threonine (threonine) is an essential amino acid in humans, an important amino acid for the nervous system, L-Threonine also plays an important role in porphyrin and fat metabolism and prevents fat buildup in the liver. Useful with intestinal disorders and indigestion, threonine has also been used to alleviate anxiety and mild depression.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: 33.3 mg/mL (279.55 mM), Sonication is recommended. DMSO: Insoluble, (< 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, A.V. Biochemistry Moscow (2018) 83: 795. <https://doi.org/10.1134/S0006297918070039>
- Hogewind-Schoonenboom, J., Huang, L., de Groof, F., Zhu, L., Voortman, G., & Schierbeek, H. et al. (2015). Threonine Requirement of the Enterally Fed Term Infant in the First Month of Life. Journal Of Pediatric Gastroenterology And Nutrition, 61(3), 373-379. doi: 10.1097/mpg.0000000000000807

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