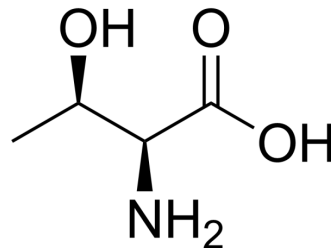


L-Threonine

Cat. No.:	HY-N0658		
CAS No.:	72-19-5		
Molecular Formula:	C ₄ H ₉ NO ₃		
Molecular Weight:	119.12		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

H₂O : 33.33 mg/mL (279.80 mM; Need ultrasonic)
 DMSO : < 1 mg/mL (insoluble or slightly soluble)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		8.3949 mL	41.9745 mL	83.9490 mL
	5 mM		1.6790 mL	8.3949 mL	16.7898 mL
	10 mM		0.8395 mL	4.1974 mL	8.3949 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
 Solubility: 50 mg/mL (419.74 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

L-Threonine is a natural amino acid, can be produced by microbial fermentation, and is used in food, medicine, or feed^[1].

IC₅₀ & Target

Microbial Metabolite

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Acta Pharm Sin B. 2022 Sep;12(9):3618-3638.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Zhao H, et al. Increasing L-threonine production in Escherichia coli by engineering the glyoxylate shunt and the L-threonine biosynthesis pathway. Appl Microbiol Biotechnol. 2018 Jul;102(13):5505-5518.

Caution: Product has not been fully validated for medical applications. For research use only.

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