

L-Histidine

Chemical Properties

CAS No. :	71-00-1
Formula:	C ₆ H ₉ N ₃ O ₂
Molecular Weight:	155.16
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-Histidine (L-(-)-Histidine) is a semi-essential amino acid (children should obtain it from food) needed in humans for growth and tissue repair, L-Histidine is important for maintenance of myelin sheaths that protect nerve cells and is metabolized to the neurotransmitter histamine. Histamines play many roles in immunity, gastric secretion, and sexual functions. L-Histidine is also required for blood cell manufacture and protects tissues against damage caused by radiation and heavy metals.
Targets(IC50)	Mitochondrial Metabolism,Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: 29.70 mg/mL (191.42 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	6.445 mL	32.2248 mL	64.4496 mL
5 mM	1.289 mL	6.445 mL	12.8899 mL
10 mM	0.6445 mL	3.2225 mL	6.445 mL
50 mM	0.1289 mL	0.6445 mL	1.289 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

Bou Zeidan M, et al. L-histidine inhibits biofilm formation and FLO11-associated phenotypes in *Saccharomyces cerevisiae* flor yeasts. PLoS One. 2014 Nov 4;9(11):e112141.

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