# Data Sheet (Cat.No.T2A2532)



## L-Histidine

Chemical Propert		
CAS No. :	71-00-1	но
Formula:	C6H9N3O2	
Molecular Weight:	155.15	H <sub>2</sub> N 1111
Appearance:	no data available	
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year	\ <u></u> ,

### **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 Informati	on	
Solubility	H2O: 10 mM, DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)	

#### Preparing Stock Solutions

.0	1mg	5mg	10mg
1 mM	6.4454 mL	32.2269 mL	64.4538 mL
5 mM	1.2891 mL	6.4454 mL	12.8908 mL
10 mM	0.6445 mL	3.2227 mL	6.4454 mL
50 mM	0.1289 mL	0.6445 mL	1.2891 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.

#### 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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