

L-Hisidine monohydrochloride

Chemical Properties

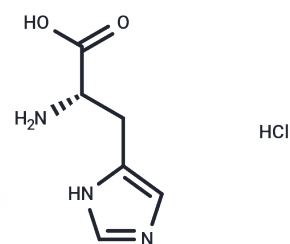
CAS No. : 645-35-2

Formula: C₆H₁₀ClN₃O₂

Molecular Weight: 191.62

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-Hisidine is an essential amino acid for infants and acts as an inhibitor of mitochondrial glutamine transport.
Targets(IC50)	Endogenous Metabolite
In vitro	L-histidine notably impedes growth, with its impacts on viability inversely associated with FLO11 expression. In strains Δflo11 and S288c, this compound does not influence viability. Additionally, L-histidine substantially reduces air-liquid biofilm formation and adherence to polystyrene in flor yeasts, while not altering the transcription level of the FLO11 gene. Furthermore, it alters the content of chitin and glycans in the cell walls of flor yeasts.
In vivo	Administering L-histidine (100 mg/kg) effectively prevents brain edema in rats treated with thioacetamide. In the L-histidine diet group, histamine release induced by high K ⁺ levels in the hypothalamus is reduced to 60% compared to the control group. However, levels of other monoamines and their metabolites remain unchanged by the L-histidine diet. Behavioral assessments, such as the open-field and light/dark box tests, reveal that rats on the L-histidine diet spend less time in the central and light zones, respectively, indicating anxiety-like behaviors induced by the diet.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2187 mL	26.0933 mL	52.1866 mL
5 mM	1.0437 mL	5.2187 mL	10.4373 mL
10 mM	0.5219 mL	2.6093 mL	5.2187 mL
50 mM	0.1044 mL	0.5219 mL	1.0437 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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