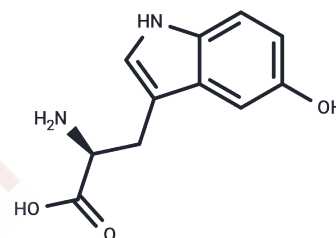


## L-5-Hydroxytryptophan

## Chemical Properties

CAS No. :	4350-09-8
Formula:	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	220.22
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	L-5-Hydroxytryptophan (L-5-HTP) is a naturally occurring amino acid and dietary supplement that serves as a precursor to the neurotransmitter serotonin. It can be used as an antidepressant, appetite suppressant, and sleep aid, and acts as an antagonist to reserpine. L-5-HTP is widely used in research on myoclonus, fibromyalgia, migraine, and cerebellar ataxia, and is also commonly used to induce epilepsy models.
Targets(IC50)	Amino Acids and Derivatives, Endogenous Metabolite

## Solubility Information

Solubility	H <sub>2</sub> O: 2 mg/mL (9.08 mM) DMSO: 130 mg/mL (590.32 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (14.99 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	4.5409 mL	22.7046 mL	45.4091 mL
5 mM	0.9082 mL	4.5409 mL	9.0818 mL
10 mM	0.4541 mL	2.2705 mL	4.5409 mL
50 mM	0.0908 mL	0.4541 mL	0.9082 mL

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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

Overington JP, et al. Nat Rev Drug Discov. 2006 Dec;5(12):993-6.

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