Product Manual

产品说明书

Product number:

PC57507

Product name:

L-Tryptophan

CAS No. :

73-22-3

Formula:

C11H12N2O2

Molecular Weight:

204.2252

Storage:

Keep away from direct sunlight,Store under nitrogen

Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Description:

L-Tryptophan (Tryptophane), an essential amino acid, is necessary for normal growth in infants and for nitrogen balance in adults. It is a precursor of SEROTONIN (hence its use as an antidepressant and sleep aid) and of INDOLE ALKALOIDS in plants.

It can be a precursor to NIACIN, although inefficiently in mammals.

Targets(IC50):

Amino Acids and Derivatives,Endogenous Metabolite

Solubility:

DMSO: 16.70 mg/mL (81.77 mM),Sonication is recommended.
H2O: 10 mg/mL (48.97 mM),Sonication is recommended.
(< 1 mg/ml refers to the product slightly soluble or insoluble)

In vivo Formulation:

10% DMSO+90% Saline: 1.67 mg/mL (8.18 mM),Solution.
10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1.00 mg/mL (4.90 mM),Sonication is recommended.
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.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8964 mL	24.4822 mL	48.9644 mL
5 mM	0.9793 mL	4.8964 mL	9.7929 mL
10 mM	0.4896 mL	2.4482 mL	4.8964 mL
50 mM	0.0979 mL	0.4896 mL	0.9793 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.