

## DL-Norvaline

## Chemical Properties

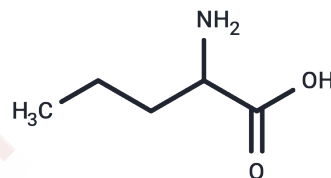
CAS No. : 760-78-1

Formula: C<sub>5</sub>H<sub>11</sub>NO<sub>2</sub>

Molecular Weight: 117.15

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	DL-Norvaline (2-Aminopentanoic acid) is a non-competitive inhibitor of arginase.
Targets(IC50)	Arginase,Endogenous Metabolite
In vitro	DL-Norvaline, a derivative of L-norvaline, acts as a non-competitive inhibitor of arginase [enzyme].

## Solubility Information

Solubility	H <sub>2</sub> O: 50 mg/mL (426.8 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.5361 mL	42.6803 mL	85.3606 mL
5 mM	1.7072 mL	8.5361 mL	17.0721 mL
10 mM	0.8536 mL	4.268 mL	8.5361 mL
50 mM	0.1707 mL	0.8536 mL	1.7072 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

Sosroseno W, et al. Arginase activity in a murine macrophage cell line (RAW264.7) stimulated with lipopolysaccharide from *Actinobacillus actinomycetemcomitans*. *Oral Microbiol Immunol*. 2006 Jun;21(3):145-50.

El-Bassossy HM, et al. Arginase inhibition alleviates hypertension associated with diabetes: effect on endothelial dependent relaxation and NO production. *Vascul Pharmacol*. 2012 Nov-Dec;57(5-6):194-200.

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