

## L-Propargylglycine

## Chemical Properties

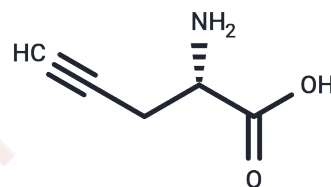
CAS No. : 23235-01-0

Formula: C<sub>5</sub>H<sub>7</sub>NO<sub>2</sub>

Molecular Weight: 113.11

Storage: Keep away from moisture, 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.



## Biological Description

Description	L-Propargylglycine ((S)-Propargylglycine) is an inhibitor of the enzyme.
Targets(IC50)	Others, Amino Acids and Derivatives
In vitro	l-propargylglycine (LPG) irreversibly inhibited the enzyme from <i>Crotalus adamanteus</i> and <i>Crotalus atrox</i> in a dose- and time-dependent manner. Inactivation was irreversible which was significantly protected by the substrate l-phenylalanine. A Kitz-Wilson replot of the inhibition kinetics suggested formation of reversible enzyme-LPG complex, which occurred prior to modification and inactivation of the enzyme. UV-visible and fluorescence spectra of the enzyme and the cofactor strongly suggested formation of covalent adduct between LPG and an active site residue of the enzyme. A molecular modeling study revealed that the FAD-binding, substrate-binding and the helical domains are conserved in SV-LAAOs and both His223 and Arg322 are the important active site residues that are likely to get modified by LPG.

## Solubility Information

Solubility	DMSO: Slightly soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	8.841 mL	44.2048 mL	88.4095 mL
5 mM	1.7682 mL	8.841 mL	17.6819 mL
10 mM	0.8841 mL	4.4205 mL	8.841 mL
50 mM	0.1768 mL	0.8841 mL	1.7682 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

Irreversible inactivation of snake venom l-amino acid oxidase by covalent modification during catalysis of l-propargylglycine

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