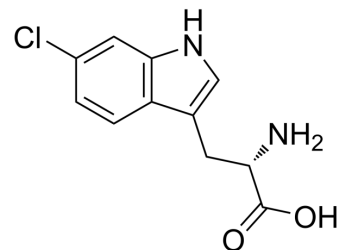


## 6-Chloro-L-tryptophan

<b>Cat. No.:</b>	HY-W050025		
<b>CAS No.:</b>	33468-35-8		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>11</sub> ClN <sub>2</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	238.67		
<b>Target:</b>	Amino Acid Derivatives		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 50 mg/mL (209.49 mM; ultrasonic and warming and adjust pH to 12 with 1M NaOH and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.1899 mL	20.9494 mL	41.8989 mL
	5 mM	0.8380 mL	4.1899 mL	8.3798 mL
	10 mM	0.4190 mL	2.0949 mL	4.1899 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

6-Chloro-L-tryptophan is a Tryptophan derivative. 6-Chloro-L-tryptophan can be used as a substrate for KtzQ<sup>[1]</sup>.

#### In Vitro

6-Chloro-L-tryptophan (0-500 μM) exhibits no inhibitory effect on D-amino acid oxidase (DAO)<sup>[2]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Heemstra JR Jr, et al. Tandem action of the O<sub>2</sub>- and FADH<sub>2</sub>-dependent halogenases KtzQ and KtzR produce 6,7-dichlorotryptophan for kutzneride assembly. J Am Chem Soc. 2008 Oct 29;130(43):14024-5.

[2]. Iwasaki M, et al. A high-performance liquid chromatography assay with a triazole-bonded column for evaluation of d-amino acid oxidase activity. Biomed Chromatogr. 2016 Mar;30(3):384-9.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA