Data Sheet (Cat.No.T64941)

TargetMol

(S)-2-Amino-3-(6-chloro-1H-indol-3-yl)propanoic acid

Chemical Properties

CAS No. : 33468-35-8

Formula: C11H11ClN2O2

Molecular Weight: 238.67

Storage: Keep away from moisture
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	(S)-2-Amino-3-(6-chloro-1H-indol-3-yl)propanoic acid (6-Chloro-L-tryptophan) is a tryptophan derivative serving as a substrate for KtzQ, exhibiting inhibitory activity against MDM2 protein (IC50=0.005 μM).
Targets(IC50)	Mdm2,Amino Acids and Derivatives

Solubility Information

Solubility	DMSO: 1.5 mg/mL (6.28 mM),Sonication is recommended. H2O: 40 mg/mL (167.6 mM),when PH is adjusted to 12 with NaOH 1 M NaOH: 80 mg/mL (335.19 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1899 mL	20.9494 mL	41.8989 mL
5 mM	0.838 mL	4.1899 mL	8.3798 mL
10 mM	0.419 mL	2.0949 mL	4.1899 mL
50 mM	0.0838 mL	0.419 mL	0.838 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

Heemstra JR Jr, et al. Tandem action of the O2- and FADH2-dependent halogenases KtzQ and KtzR produce 6,7-dichlorotryptophan for kutzneride assembly. J Am Chem Soc. 2008 Oct 29;130(43):14024-5.
Zhan C, Lu W. Peptide activators of the p53 tumor suppressor. Curr Pharm Des. 2011;17(6):603-609.

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