

$\beta$ -Chloro-L-alanine

## Chemical Properties

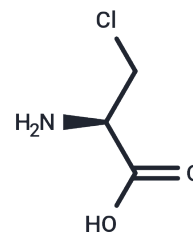
CAS No. : 2731-73-9

Formula: C<sub>3</sub>H<sub>6</sub>ClNO<sub>2</sub>

Molecular Weight: 123.54

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.



## Biological Description

Description	$\beta$ -Chloro-L-alanine (L- $\beta$ -Chloroalanine) is a bacteriostatic amino acid analog which inhibits a number of enzymes, including threonine deaminase and alanine racemase.
Targets(IC50)	Antibacterial

## Solubility Information

Solubility	H <sub>2</sub> O: 30 mg/mL (242.84 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	8.0945 mL	40.4727 mL	80.9454 mL
5 mM	1.6189 mL	8.0945 mL	16.1891 mL
10 mM	0.8095 mL	4.0473 mL	8.0945 mL
50 mM	0.1619 mL	0.8095 mL	1.6189 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

Whalen W A , Wang M D , Berg C M . beta-Chloro-L-alanine inhibition of the Escherichia coli alanine-valine transaminase.[J]. Journal of Bacteriology, 1985, 164(3):1350-2.

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