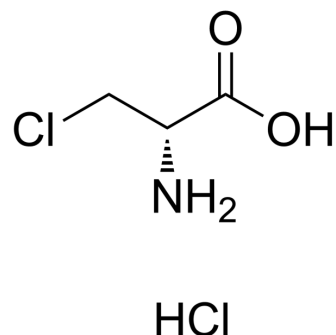


β-Chloro-D-alanine hydrochloride

Cat. No.:	HY-W015457
CAS No.:	51887-88-8
Molecular Formula:	C ₃ H ₇ Cl ₂ NO ₂
Molecular Weight:	160
Target:	Amino Acid Derivatives
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 100 mg/mL (625.00 mM)
 DMSO : 100 mg/mL (625.00 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.2500 mL	31.2500 mL	62.5000 mL
	5 mM	1.2500 mL	6.2500 mL	12.5000 mL
	10 mM	0.6250 mL	3.1250 mL	6.2500 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (15.63 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (15.63 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

β-Chloro-D-alanine hydrochloride is an alanine derivative^[1].

In Vitro

Amino acids and amino acid derivatives have been commercially used as ergogenic supplements. They influence the secretion of anabolic hormones, supply of fuel during exercise, mental performance during stress related tasks and prevent exercise induced muscle damage. They are recognized to be beneficial as ergogenic dietary substances^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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