

DL-Alanine

Chemical Properties

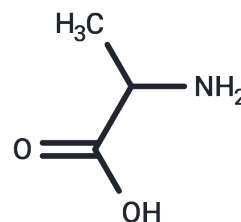
CAS No. : 302-72-7

Formula: C₃H₇NO₂

Molecular Weight: 89.09

Appearance: Solid

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	DL-Alanine (DL-2-Aminopropionic acid) is an amino acid that is a racemic compound of L- and D-alanine. DL-Alanine is often used as a reducing and capping agent in conjunction with aqueous silver nitrate for nanoparticle generation. DL-Alanine is a sweetening agent, and can be grouped with glycine and sodium saccharin. DL-Alanine plays an important role in glucose-alanine cycling between tissues and liver. DL-Alanine can be used to study the chelation of transition metals such as Cu, Zn, and Cd. DL-Alanine plays an important role in the glucose-alanine cycle between tissues and the liver. DL-Alanine can be used to study the chelation of transition metals such as Cu, Zn, and Cd.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 0.9 mg/mL (10.1 mM), Sonication and heating to 80°C are recommended. H ₂ O: 45 mg/mL (505.11 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	11.2246 mL	56.123 mL	112.246 mL
5 mM	2.2449 mL	11.2246 mL	22.4492 mL
10 mM	1.1225 mL	5.6123 mL	11.2246 mL
50 mM	0.2245 mL	1.1225 mL	2.2449 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.

Reference

- Amrallah AH, et al. Mixed ligand complexes of benzimidazole and pyrimidine hydroxy azo dyes with some transition metals and glycine, dl-alanine or dl-leucine. *Talanta*. 1998;46(4):491-500.
- Tapper DN, et al. Taste stimuli: a behavioral categorization. *Science*. 1968;161(3842):708-710.
- de Lima AP, et al. Ru(II)-Based Amino Acid Complexes Show Promise for Leukemia Treatment: Cytotoxicity and Some Light on their Mechanism of Action. *Biol Trace Elem Res*. 2020;197(1):123-131.

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