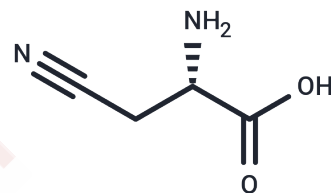


β -cyano-L-Alanine

Chemical Properties

CAS No. :	6232-19-5
Formula:	C ₄ H ₆ N ₂ O ₂
Molecular Weight:	114.1
Storage:	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	β -cyano-L-Alanine (Beta-cyano-l-alanine) is a commonly occurring nitrile found in higher plants.
Targets(IC50)	Others,Endogenous Metabolite
In vivo	β -cyano-L-Alanine (i.p.; 50 mg/kg) abolishes the protective effect of ethanol on cerebral ischemia/reperfusion (I/R) injury.

Solubility Information

Solubility	H ₂ O: 20.83 mg/mL (182.56 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	8.7642 mL	43.8212 mL	87.6424 mL
5 mM	1.7528 mL	8.7642 mL	17.5285 mL
10 mM	0.8764 mL	4.3821 mL	8.7642 mL
50 mM	0.1753 mL	0.8764 mL	1.7528 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

Piotrowski M, et al. The Arabidopsis thaliana isogene NIT4 and its orthologs in tobacco encode beta-cyano-L-alanine hydratase/nitrilase. *J Med Chem. J Biol Chem.* 2001 Jan 26;276(4):2616-21.

McCarter KD, et al. Influence of low-dose alcohol consumption on post-ischemic inflammation: Role of cystathionine γ -lyase. *Alcohol.* 2019 May;76:81-89.

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