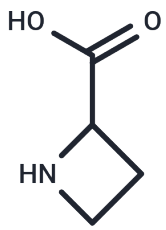
Data Sheet (Cat.No.T8100)

TargetMol

Azetidine-2-carboxylic acid

Chemical Properties



CAS No. : 2517-04-6

Formula: C4H7NO2

Molecular Weight: 101.1

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	Azetidine-2-carboxylic acid, a non-proteinogenic amino acid homologue of proline found in common [beets], can be misincorporated into proteins in place of proline in various species, including humans, and is both toxic and teratogenic.
Targets(IC50)	Others

Solubility Information

Solubility	H2O: 50 mg/mL (494.56 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.8912 mL	49.456 mL	98.912 mL
5 mM	1.9782 mL	9.8912 mL	19.7824 mL
10 mM	0.9891 mL	4.9456 mL	9.8912 mL
50 mM	0.1978 mL	0.9891 mL	1.9782 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

Rubenstein E, et al. Azetidine-2-carboxylic acid in the food chain. Phytochemistry. 2009 Jan;70(1):100-4.
Rubenstein E, et al. Misincorporation of the proline analog azetidine-2-carboxylic acid in the pathogenesis of multiple sclerosis: a hypothesis. J Neuropathol Exp Neurol. 2008 Nov;67(11):1035-40.
Lane JM, et al. Effect of the proline analogue azetidine-2-carboxylic acid on collagen synthesis in vivo. I. Arrest of collagen accumulation in growing chick embryos. Biochim Biophys Acta. 1971 Jun 29;236(3):517-27.

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