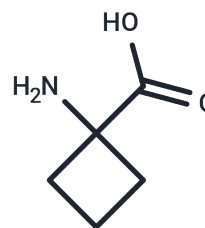


1-Aminocyclobutanecarboxylic acid

Chemical Properties

CAS No. :	22264-50-2
Formula:	C ₅ H ₉ NO ₂
Molecular Weight:	115.13
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	1-Aminocyclobutanecarboxylic acid (ACBC) is a NMDA receptor partial agonist. 1-Aminocyclobutanecarboxylic acid act at the glycine site, NR1[1].
Targets(IC50)	NMDAR,iGluR

Solubility Information

Solubility	H ₂ O: 25 mg/mL (217.15 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	8.6858 mL	43.4292 mL	86.8583 mL
5 mM	1.7372 mL	8.6858 mL	17.3717 mL
10 mM	0.8686 mL	4.3429 mL	8.6858 mL
50 mM	0.1737 mL	0.8686 mL	1.7372 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

Atsushi Inanobe, et al. Mechanism of partial agonist action at the NR1 subunit of NMDA receptors. Neuron. 2005 Jul 7;47(1):71-84.

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