

2-Amino-5-ureidopentanoic acid

Chemical Properties

CAS No. :	627-77-0
Formula:	C ₆ H ₁₃ N ₃ O ₃
Molecular Weight:	175.186
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	2-Amino-5-ureidopentanoic acid (Citrulline) exists in the liver, is not a protein component, is an important intermediate in the human urea cycle, can be combined with ornithine, arginine to treat hyperammonemia.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: Insoluble, H ₂ O: 72.86 mg/mL (415.90 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	5.7081 mL	28.5404 mL	57.0809 mL
5 mM	1.1416 mL	5.7081 mL	11.4162 mL
10 mM	0.5708 mL	2.854 mL	5.7081 mL
50 mM	0.1142 mL	0.5708 mL	1.1416 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

Cusumano ZT, Caparon MG. J Bacteriol. 2015 Apr;197(7):1288-96.

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