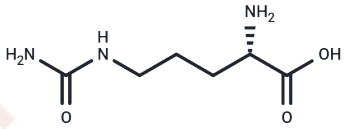
Data Sheet (Cat.No.T4813)

TargetMol

L-Citrulline

Chemical Properties



CAS No. : 372-75-8

Formula: C6H13N3O3

Molecular Weight: 175.19

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	L-Citrulline, an amino acid, is derived from ornithine during the catabolism of proline, glutamate, or glutamine, and also from L-arginine via the arginine-citrulline pathway.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H2O: 100 mg/mL (570.81 mM),Sonication and heating are recommended. DMSO: Insoluble, 5% DMSO + 40% PEG300 + 5% Tween-80 + 50% ddH2O: 0.62 mg/mL (3.54 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

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

Fleszar MG, et al. Quantitative Analysis of l-Arginine, Dimethylated Arginine Derivatives, l-Citrulline, and Dimethylamine in Human Serum Using Liquid Chromatography-Mass Spectrometric Method. Chromatographia. 2018;81(6):911-921.

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