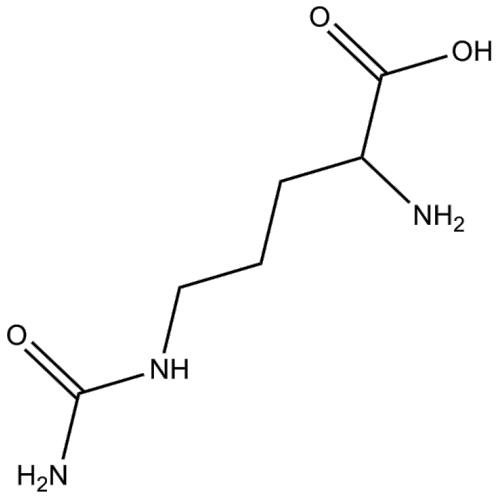
Product Data Sheet

Product Name: H-Cit-OH
Cat. No.: GA11190

Chemical Properties

Cas. No.	372-75-8		
Chemical Name	(2S)-2-amino-5-(carbamoylamino)pentanoic acid		
SMILES	C(CC(C(=O)O)N)CNC(=O)N		
Formula	$C_6H_{13}N_3O_3$	M.Wt	175.2
Solubility	≥ 17.5mg/mL in Water	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

L-Citrulline is an amino acid derived from ornithine in the catabolism of proline or glutamine and glutamate, or from l-arginine via arginine-citrulline pathway.

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degradation of asymmetric dimethylarginine (ADMA), the process catalyzed by dimethylarginine dimethylaminohydrolase (DDAH), yielding dimethylamine (DMA) as a coproduct[1].

References:

[1]. 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.