

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

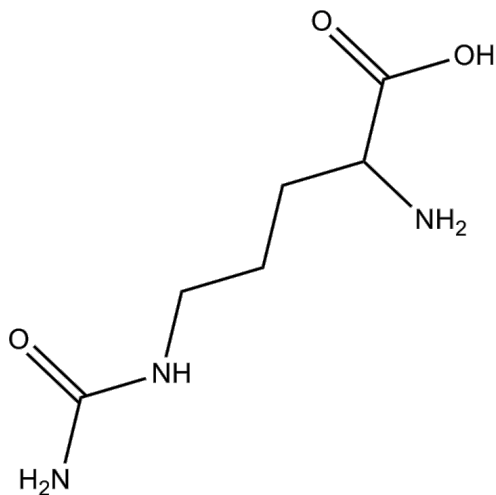
Solubility $\geq 17.5\text{mg/mL}$ in Water

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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Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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