L-Homocitrulline

Cat. No.: HY-W018004

CAS No.: 1190-49-4

Molecular Formula: $C_7H_{15}N_3O_3$

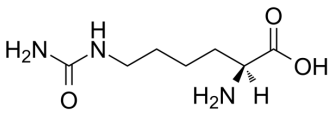
Molecular Weight: 189.21

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (528.51 mM; Need ultrasonic)

DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	5.2851 mL	26.4257 mL	52.8513 mL
5 mM	1.0570 mL	5.2851 mL	10.5703 mL
10 mM	0.5285 mL	2.6426 mL	5.2851 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

L-Homocitrulline is metabolized to homoarginine through homoargininosuccinate via the urea cycle pathway and its metabolic abnormality could lead to Lysinuric Protein Intolerance (LPI).

IC_{50} & Target

Human Endogenous Metabolite

REFERENCES

[1]. Kato T, et al. Homocitrullinuria and homoargininuria in lysinuric protein intolerance. J Inherit Metab Dis. 1989;12(2):157-61.

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

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