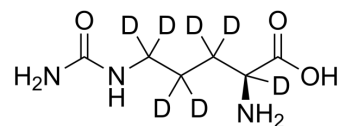


L-Citrulline-d₇

Cat. No.:	HY-N0391S5		
CAS No.:	2483831-24-7		
Molecular Formula:	C ₆ H ₆ D ₇ N ₃ O ₃		
Molecular Weight:	182.23		
Target:	Endogenous Metabolite; Isotope-Labeled Compounds		
Pathway:	Metabolic Enzyme/Protease; Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 50 mg/mL (274.38 mM)
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 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		5.4876 mL	27.4379 mL	54.8757 mL
	5 mM		1.0975 mL	5.4876 mL	10.9751 mL
	10 mM		0.5488 mL	2.7438 mL	5.4876 mL

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

BIOLOGICAL ACTIVITY

Description

L-Citrulline-d₇ is the deuterium labeled L-Citrulline. 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.

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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

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