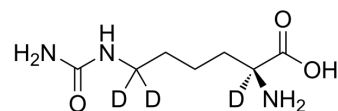


L-Homocitrulline-d₃

Cat. No.:	HY-W018004S		
Molecular Formula:	C ₇ H ₁₂ D ₃ N ₃ O ₃		
Molecular Weight:	192.23		
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



BIOLOGICAL ACTIVITY

Description	L-Homocitrulline-d ₃ is the deuterium labeled L-Homocitrulline. L-Homocitrulline is metabolized to homoarginine through homoargininosuccinate via the urea cycle pathway and its metabolic abnormality could lead to Lysinuric Protein Intolerance (LPI).
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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. 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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