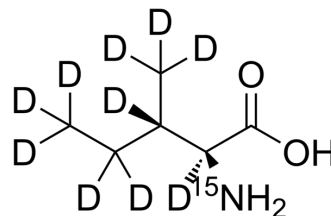


L-Isoleucine-¹⁵N,^d₁₀

Cat. No.:	HY-N0771S7		
Molecular Formula:	C ₆ H ₃ D ₁₀ ¹⁵ N ₂ O ₂		
Molecular Weight:	142.23		
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 ₂ O : 25 mg/mL (175.77 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	7.0309 mL	35.1543 mL	70.3087 mL
		5 mM	1.4062 mL	7.0309 mL	14.0617 mL
		10 mM	0.7031 mL	3.5154 mL	7.0309 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 12.5 mg/mL (87.89 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	L-Isoleucine- ¹⁵ N, ^d ₁₀ is the deuterium and ¹⁵ N-labeled L-Isoleucine. L-isoleucine is a nonpolar hydrophobic amino acid[1]. L-Isoleucine is an essential amino acid.
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.

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

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