L-Leucine-1-¹³C,¹⁵N

Cat. No.:

MedChemExpress

CAS No.:	80134-83-4	\cap
Molecular Formula:	C ₅ ¹³ CH ₁₃ ¹⁵ NO ₂	13С ОН
Molecular Weight:	133.16	
Target:	mTOR; Endogenous Metabolite	
Pathway:	PI3K/Akt/mTOR; Metabolic Enzyme/Protease	1 $^{15}\rm{NH}_{2}$
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	L

BIOLOGICAL ACTIVITY		
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Description	L-Leucine-1- ¹³ C, ¹⁵ N is the ¹³ C- and ¹⁵ N-labeled L-Leucine. L-Leucine is an essential branched-chain amino acid (BCAA), which activates the mTOR signaling pathway[1].	
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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Product Data Sheet