L-Leucine-1-¹³C,¹⁵N

MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-N0486S7 80134-83-4 C5 ¹³ CH ₁₃ ¹⁵ NO ₂ 133.16 mTOR; Endogenous Metabolite PI3K/Akt/mTOR; Metabolic Enzyme/Protease 4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture	О 1 ³ С 0Н 1 ⁵ NH ₂
	and light)	

SOLVENT & SOLUBILITY

* "≥" means sol	uble, but saturation unknown.			
	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	7.5098 mL	37.5488 mL	75.0976 mL
	5 mM	1.5020 mL	7.5098 mL	15.0195 mL
	10 mM			

BIOLOGICAL ACTIVITY					
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.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA