L-Valine-¹³C₅

MedChemExpress

Cat. No.:	HY-N0717S	6			
CAS No.:	55443-52-2				
Molecular Formula:	¹³ C ₅ H ₁₁ NO ₂				
Molecular Weight:	122.11				
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

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	8.1893 mL	40.9467 mL	81.8934 ml	
	5 mM	1.6379 mL	8.1893 mL	16.3787 ml	
	10 mM	0.8189 mL	4.0947 mL	8.1893 mL	

BIOLOGICAL ACTIVITY					
BIOLOGICALMON					
Description	L-Valine- ¹³ C ₅ is the ¹³ C-labeled L-Valine. L-Valine is one of 20 proteinogenic amino acids. L-Valine is an essential amino acid[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.

Product Data Sheet

 $H_{3}^{13}CH_{3} O_{13}CH_{3}^{13}CH_{3}^{13}CH_{$

ОH

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

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