## L-Valine-1-<sup>13</sup>C

MedChemExpress

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Cat. No.:HY-N0717S4CAS No.:81201-85-6Molecular Formula:C4^{13}CH11NO2Molecular Weight:118.14Target:Endogenous MetabolitePathway:Metabolic Enzyme/ProteaseStorage:4°C, sealed storage, away from moisture and light	O 13C OH NH <sub>2</sub>
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## SOLVENT & SOLUBILITY

Preparing Stock Solutions							
		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	8.4645 mL	42.3227 mL	84.6453 mL		
		5 mM	1.6929 mL	8.4645 mL	16.9291 mL		
		10 mM	0.8465 mL	4.2323 mL	8.4645 mL		

BIOLOGICAL ACTIVITY			
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Description	L-Valine-1- <sup>13</sup> C is the <sup>13</sup> 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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

## REFERENCES

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[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

Inhibitors •

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Proteins

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

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