



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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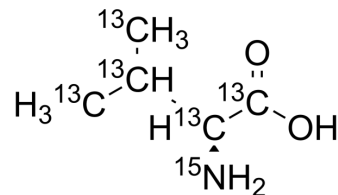
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## L-Valine-<sup>13</sup>C<sub>5</sub>,<sup>15</sup>N

<b>Cat. No.:</b>	HY-N0717S1		
<b>CAS No.:</b>	202407-30-5		
<b>Molecular Formula:</b>	<sup>13</sup> C <sub>5</sub> H <sub>11</sub> <sup>15</sup> N <sub>2</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	123.1		
<b>Target:</b>	Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 35.71 mg/mL (290.09 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	8.1235 mL	40.6174 mL	81.2348 mL
	5 mM	1.6247 mL	8.1235 mL	16.2470 mL
	10 mM	0.8123 mL	4.0617 mL	8.1235 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

L-Valine-<sup>13</sup>C<sub>5</sub>,<sup>15</sup>N is the <sup>13</sup>C- and <sup>15</sup>N-labeled L-Valine. L-Valine is one of 20 proteinogenic amino acids. L-Valine is an essential amino acid<sup>[1]</sup>.

#### 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

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

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

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