



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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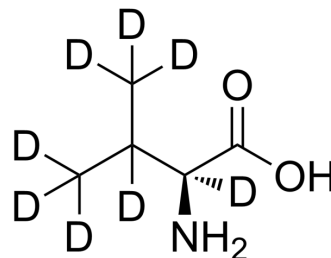
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L-Valine-d₈

Cat. No.:	HY-I1124		
CAS No.:	35045-72-8		
Molecular Formula:	C ₅ H ₃ D ₈ NO ₂		
Molecular Weight:	125.2		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 41.67 mg/mL (332.83 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	7.9872 mL	39.9361 mL	79.8722 mL
5 mM	1.5974 mL	7.9872 mL	15.9744 mL
10 mM	0.7987 mL	3.9936 mL	7.9872 mL

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

BIOLOGICAL ACTIVITY

Description

L-Valine-d₈ is a deuterated form of L-Valine. L-Valine-d₈ can be used in the labelled synthesis of L-valineamide-d₈ intermediate[1]. L-Valine is one of 20 proteinogenic amino acids. L-Valine is an essential amino acid[2].

REFERENCES

[1]. Iyer MR, et al. Synthesis of S-2-((S)-3-(4-chlorophenyl)-N'-((4-chlorophenyl)sulfonyl)-4-phenyl-4,5-dihydro-1H-pyrazole-1-carboximidamido)-3-(methyl-d₃)butanamide-d₅, octadeuterated JD5037. J Labelled Comp Radiopharm. 2017;60(10):460-465.

[2]. Oldiges, et al. Application of metabolic engineering for the biotechnological production of L-valine. Appl Microbiol Biotechnol 98, 5859–5870 (2014).

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

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