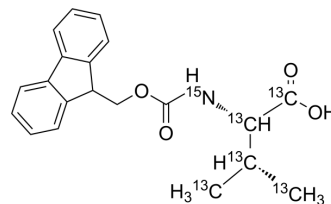


Fmoc-L-Val-OH-¹³C₅,¹⁵N

Cat. No.:	HY-I1111S2
CAS No.:	1217442-94-8
Molecular Formula:	C ₁₅ ¹³ C ₅ H ₂₁ ¹⁵ NO ₄
Molecular Weight:	345.34
Target:	Cholinesterase (ChE); Parasite; Isotope-Labeled Compounds
Pathway:	Neuronal Signaling; Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fmoc-L-Val-OH- ¹³ C ₅ , ¹⁵ N is a ¹⁵ N-labeled and ¹³ C-labeled Pirimicarb. Pirimicarb is a fast-acting selective carbamate insecticide on a wide range of crops including cereals, sugar beet, potatoes, fruits and vegetables. Pirimicarb is an AChE inhibitor and an	
IC₅₀ & Target	Mite	AChE
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 ^[75] . 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):211-250.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-250.

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

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