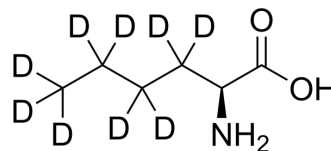


L-Norleucine-d₉

Cat. No.:	HY-Y0017S
CAS No.:	1331889-36-1
Molecular Formula:	C ₆ H ₄ D ₉ NO ₂
Molecular Weight:	140.23
Target:	Influenza Virus; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Anti-infection; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L-Norleucine-d ₉ is the deuterium labeled L-Norleucine. L-Norleucine ((S)-2-Aminohexanoic acid) is an isomer of leucine, specifically affects protein synthesis in skeletal muscle, and has antiviral activity.
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.
- [2]. Schott KJ, et al. On the role of branched-chain amino acids in protein turnover of skeletal muscle. *Studies in vivo with L-norleucine*. *Z Naturforsch C*. 1985 May-Jun;40(5-6):427-37.
- [3]. He T, et al. The homeostasis-maintaining metabolites from bacterial stress response to bacteriophage infection suppress tumor metastasis. *Oncogene*. 2018 Jun 20.

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

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