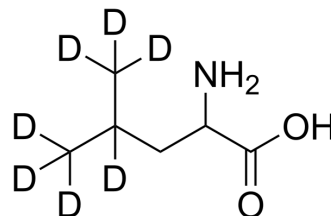


(±)-Leucine-d₇

Cat. No.:	HY-B1674S4
CAS No.:	259225-40-6
Molecular Formula:	C ₆ H ₆ D ₇ NO ₂
Molecular Weight:	138.22
Target:	Bacterial; 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	(±)-Leucine-d ₇ is the deuterium labeled (±)-Leucine. (±)-Leucine (DL-Leucine), an isomer of Leucine, chemosterilant and dietary additive. (±)-Leucine inhibits growth of Escherichia coli HfrH by 92.08%[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 ^[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]. Hendricks DE, et, al. Attractiveness of tobacco budworm females altered by oral chemosterilants and dietary additives. *Journal of Chemical Ecology*. 1977 Mar; 127-131.

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

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