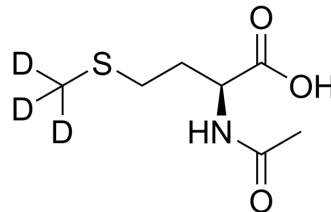


N-Acetyl-L-methionine-d₃

Cat. No.:	HY-W012499S
Molecular Formula:	C ₇ H ₁₀ D ₃ NO ₃ S
Molecular Weight:	194.27
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	N-Acetyl-L-methionine-d ₃ is the deuterium labeled N-Acetyl-L-methionine. N-Acetyl-L-methionine, a human metabolite, is nutritionally and metabolically equivalent to L-methionine. L-methionine is an indispensable amino acid required for normal growth and development[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]. Ball RO, et al. The in vivo sparing of methionine by cysteine in sulfur amino acid requirements in animal models and adult humans. *J Nutr.* 2006 Jun;136(6 Suppl):1682S-1693S.

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

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