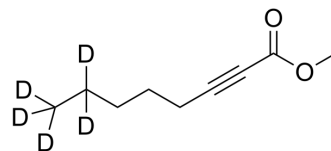


Methyl 2-Octynoate-d₅

Cat. No.:	HY-W013576S
Molecular Formula:	C ₉ H ₉ D ₅ O ₂
Molecular Weight:	159.24
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Methyl 2-Octynoate-d ₅ is deuterated labeled Estragole (HY-N5060). Estragole (4-Allylanisole), a relatively nontoxic volatile terpenoid ether, is a major component of the essential oil of many plants. Estragole dose-dependently blocks nerve excitability ^[1] . Estragole displays anti-toxoplasma activity ^[2] .
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]. Ryan J Schutte, et al. Molecular docking predictions of fragrance binding to human leukocyte antigen molecules. *Contact Dermatitis*. 2019 Sep;81(3):174-183.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

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

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