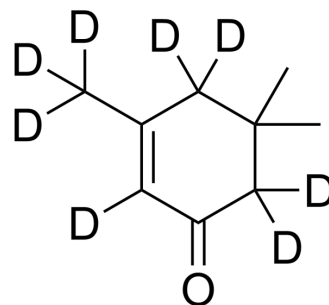


Isophorone-d₈

Cat. No.:	HY-Y0932S1
CAS No.:	14397-59-2
Molecular Formula:	C ₉ H ₆ D ₈ O
Molecular Weight:	146.26
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Isophorone-d ₈ is the deuterium labeled Isophorone[1]. Isophorone, an α,β-unsaturated cyclic ketone, is used as a precursor to polymers[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Dezvarei S, et al. Stereoselective hydroxylation of isophorone by variants of the cytochromes P450 CYP102A1 and CYP101A1. *Enzyme Microb Technol*. 2018 Apr;111:29-37.

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

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