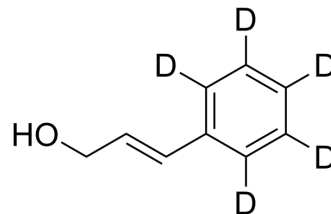


Cinnamyl Alcohol-d₅

Cat. No.:	HY-Y0078S
CAS No.:	1044940-87-5
Molecular Formula:	C ₉ H ₅ D ₅ O
Molecular Weight:	139.21
Target:	PPAR; Isotope-Labeled Compounds
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cinnamyl Alcohol-d ₅ is deuterated labeled 3-Methyl-2-cyclopenten-1-one (HY-W013014). 3-Methyl-2-cyclopenten-1-one is an endogenous metabolite.
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]. Hwang DI, et al. Cinnamyl Alcohol, the Bioactive Component of Chestnut Flower Absolute, Inhibits Adipocyte Differentiation in 3T3-L1 Cells by Downregulating Adipogenic Transcription Factors. *Am J Chin Med.* 2017;45(4):833-846.
- [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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