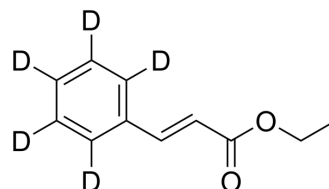


Ethyl cinnamate-d₅

Cat. No.:	HY-Y0121S
CAS No.:	856765-68-9
Molecular Formula:	C ₁₁ H ₇ D ₅ O ₂
Molecular Weight:	181.24
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ethyl cinnamate-d ₅ is the deuterium labeled Ethyl cinnamate[1]. Ethyl cinnamate is a fragrance ingredient used in many fragrance compounds. Ethyl cinnamate is a food flavor and additive for cosmetic products. Ethyl cinnamate is also an excellent clearing reagent for mammalian tissues[2][3].
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]. S P Bhatia, et al. Fragrance material review on ethyl cinnamate. *Food Chem Toxicol*. 2007;45 Suppl 1:S90-4.
- [3]. Anika Klingberg, et al. Fully Automated Evaluation of Total Glomerular Number and Capillary Tuft Size in Nephritic Kidneys Using Lightsheet Microscopy. *J Am Soc Nephrol*. 2017 Feb28(2):452-459.

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

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