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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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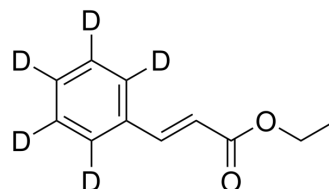
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Ethyl cinnamate-d₅

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:	Pure form	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (551.75 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	5.5175 mL	27.5877 mL	55.1755 mL
5 mM	1.1035 mL	5.5175 mL	11.0351 mL
10 mM	0.5518 mL	2.7588 mL	5.5175 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Ethyl cinnamate-d₅ 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 Feb 28(2):452-459.

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

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