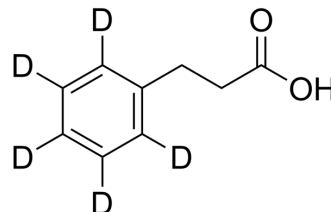


## Hydrocinnamic acid-d<sub>5</sub>

Cat. No.:	HY-Y1088S3
CAS No.:	35845-62-6
Molecular Formula:	C <sub>9</sub> H <sub>5</sub> D <sub>5</sub> O <sub>2</sub>
Molecular Weight:	155.21
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Hydrocinnamic acid-d <sub>5</sub> is the deuterium labeled Hydrocinnamic acid[1]. Hydrocinnamic acid is the major rhizospheric compound with known growth regulatory activities[2].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Tang CS, et al. Collection and Identification of Allelopathic Compounds from the Undisturbed Root System of Bigalta Limpograss (*Hemarthria altissima*). *Plant Physiol*. 1982 Jan;69(1):155-60.

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

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