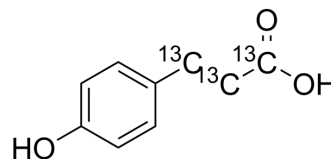


## p-Coumaric acid-<sup>13</sup>C<sub>3</sub>

Cat. No.:	HY-N0351S
Molecular Formula:	C <sub>6</sub> <sup>13</sup> C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>
Molecular Weight:	165.12
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>	p-Coumaric acid- <sup>13</sup> C <sub>3</sub> is the <sup>13</sup> C-labeled p-Coumaric acid. p-Coumaric acid is the abundant isomer of cinnamic acid which has antitumor and anti-mutagenic activities.
<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;53(2):211-216.
- [2]. Jaganathan SK, et al. Events associated with apoptotic effect of p-Coumaric acid in HCT-15 colon cancer cells. *World J Gastroenterol.* 2013 Nov 21;19(43):7726-34.

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

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