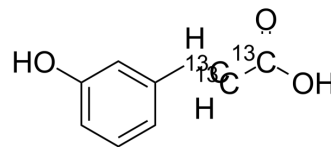


m-Coumaric acid-13C3

Cat. No.:	HY-113357S
CAS No.:	1261170-79-9
Molecular Formula:	C ₆ ¹³ C ₃ H ₈ O ₃
Molecular Weight:	167.14
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	m-Coumaric acid-13C3 is the 13C-labeled m-Coumaric acid. m-Coumaric acid is a polyphenol metabolite from caffeic acid, formed by the gut microflora and the amount in human biofluids is diet-dependant.
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;53(2):211-216.
- [2]. Ito H, et al. Chlorogenic acid and its metabolite m-coumaric acid evoke neurite outgrowth in hippocampal neuronal cells. *Biosci Biotechnol Biochem*. 2008 Mar;72(3):885-8.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA