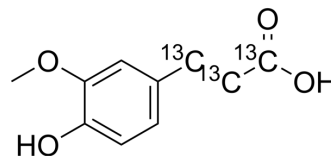


Ferulic acid-¹³C₃

Cat. No.:	HY-N0060S1
CAS No.:	1261170-81-3
Molecular Formula:	C ₇ ¹³ C ₃ H ₈ O ₄
Molecular Weight:	195.15
Target:	FGFR; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Protein Tyrosine Kinase/RTK; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ferulic acid- ¹³ C ₃ is the ¹³ C-labeled Ferulic acid. Ferulic acid is a novel fibroblast growth factor receptor 1 (FGFR1) inhibitor with IC50s of 3.78 and 12.5 μM for FGFR1 and FGFR2, respectively.
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]. Yang GW, et al. Ferulic Acid Exerts Anti-Angiogenic and Anti-Tumor Activity by Targeting Fibroblast Growth Factor Receptor 1-Mediated Angiogenesis. *Int J Mol Sci.* 2015 Oct 12;16(10):24011-31.
- [3]. Zeni AL, et al. Ferulic acid exerts antidepressant-like effect in the tail suspension test in mice: evidence for the involvement of the serotonergic system. *Eur J Pharmacol.* 2012 Mar 15;679(1-3):68-74.

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