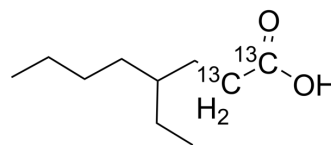


4-Ethyl octanoic acid-¹³C₂

Cat. No.:	HY-W015307S
Molecular Formula:	C ₈ ¹³ C ₂ H ₂₀ O ₂
Molecular Weight:	174.25
Target:	Biochemical Assay Reagents; Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	4-Ethyl octanoic acid- ¹³ C ₂ is ¹³ C labeled Cuminaldehyde (HY-Y0790). Cuminaldehyde is the major component of Cuminum cyminum, a natural aldehyde with inhibitory effect on alpha-synuclein fibrillation and cytotoxicity. Cuminaldehyde shows anticancer activity ^[1] .
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]. Liu YP, et al. Rapid synthesis of flavor compound 4-ethyl octanoic acid under microwave irradiation. Int J Mol Sci. 2010 Oct 25;11(10):4165-74.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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