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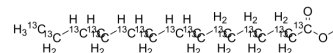
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Methyl linolenate-¹³C₁₈

Cat. No.:	HY-21268S
Molecular Formula:	C ¹³ C ₁₈ H ₃₂ O ₂
Molecular Weight:	310.32
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Methyl linolenate- ¹³ C ₁₈ is the ¹³ C labeled Methyl linolenate[1]. Methyl linolenate is a polyunsaturated fatty acid (PUFA). It is used in studies on the mechanisms and prevention of oxidation/peroxidation of unsaturated fatty acids[2][3]. The IC50 is 60 uM[4].
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 Feb;53(2):211-216.
- [2]. Huh S et al. Melanogenesis inhibitory effect of fatty acid alkyl esters isolated from Oxalis triangularis. Biol Pharm Bull, 2010, 33(7):1242-5.
- [3]. Li X et al. Benchmark Calculations for Bond Dissociation Enthalpies of Unsaturated Methyl Esters and the Bond Dissociation Enthalpies of Methyl Linolenate. J Phys Chem A, 2016, Jun 16, 120(23):4025-36
- [4]. Huh S, et al. Melanogenesis inhibitory effect of fatty acid alkyl esters isolated from Oxalis triangularis. Biol Pharm Bull. 2010;33(7):1242-5.

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

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