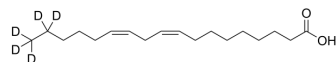


Linoleic acid-d₅

Cat. No.:	HY-N0729S4
CAS No.:	1169764-58-2
Molecular Formula:	C ₁₈ H ₂₇ D ₅ O ₂
Molecular Weight:	285.48
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Solution, -20°C, 2 years



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (350.29 mM; Need ultrasonic)
	DMSO : 100 mg/mL (350.29 mM; Need ultrasonic)
	0.1 M NaOH : 8.33 mg/mL (29.18 mM; ultrasonic and warming and adjust pH to 11 with NaOH and heat to 60°C)
	0.1 M NaOH : 8.33 mg/mL (29.18 mM; ultrasonic and warming and adjust pH to 11 with NaOH and heat to 60°C)

BIOLOGICAL ACTIVITY

Description	Linoleic Acid-d ₅ is the deuterium labeled Linoleic acid. Linoleic acid is a common polyunsaturated (PUFA) found in plant-based oils, nuts and seeds. Linoleic acid is a part of membrane phospholipids, and functions as a structural component to maintain a certain level of membrane fluidity of the transdermal water barrier of the epidermis. Linoleic acid induces red blood cells and hemoglobin damage via oxidative mechanism ^{[1][2]} .
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]. Jay Whelan. Linoleic Acid. *Adv Nutr.* 2013 May; 4(3): 311–312.

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

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