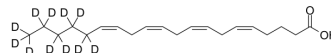


Arachidonic acid-d11

Cat. No.:	HY-109590S2
CAS No.:	2692624-11-4
Molecular Formula:	C ₂₀ H ₂₁ D ₁₁ O ₂
Molecular Weight:	315.53
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Arachidonic acid-d ₁₁ is the deuterium labeled Arachidonic acid. Arachidonic acid is an essential fatty acid and a major constituent of biomembranes[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]. Tateishi N, et al. Dietary supplementation with arachidonic acid increases arachidonic acid content in paw, but does not affect arthritis severity or prostaglandin E2 content in rat adjuvant-induced arthritis model. *Lipids Health Dis*. 2015 Jan 16;14:3.

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

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