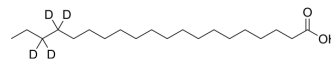


Arachidic acid-d₄

Cat. No.:	HY-W004260S4
CAS No.:	1219803-69-6
Molecular Formula:	C ₂₀ H ₃₆ D ₄ O ₂
Molecular Weight:	316.56
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.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 4.76 mg/mL (15.04 mM; Need ultrasonic and warming)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.1590 mL	15.7948 mL	31.5896 mL
	5 mM	0.6318 mL	3.1590 mL	6.3179 mL
	10 mM	0.3159 mL	1.5795 mL	3.1590 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Arachidic acid-d₄ is the deuterium labeled Arachidic acid. Arachidonic acid (Icosanoic acid), a long-chain fatty acid, is present in all mammalian cells, typically esterified to membrane phospholipids, and is one of the most abundant polyunsaturated fatty acids present in human tissue^{[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]. Koppová I, et al. Analysis of fatty acid composition of anaerobic rumen fungi. *Folia Microbiol (Praha)*. 2008;53(3):217-20.
- [2]. Martin SA, et al. The discovery and early structural studies of arachidonic acid. *J Lipid Res*. 2016 Jul;57(7):1126-32.

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

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