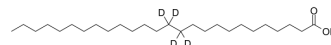


Hexacosanoic acid-d4-1

Cat. No.:	HY-113301S1		
CAS No.:	1194984-85-4		
Molecular Formula:	C ₂₆ H ₄₈ D ₄ O ₂		
Molecular Weight:	400.71		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

THF : 10 mg/mL (24.96 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.4956 mL	12.4779 mL	24.9557 mL
	5 mM	0.4991 mL	2.4956 mL	4.9911 mL
	10 mM	0.2496 mL	1.2478 mL	2.4956 mL

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

BIOLOGICAL ACTIVITY

Description

Hexacosanoic acid-d₄-11 is the deuterium labeled Hexacosanoic acid. Hexacosanoic acid is a long-chain fatty acid related to various diseases such as adrenoleukodystrophy (ALD), adrenomyeloneuropathy (AMN) and atherosclerosis.

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.

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

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