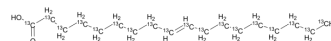


Oleic acid-¹³C₁₈

Cat. No.:	HY-N1446S2		
CAS No.:	287100-82-7		
Molecular Formula:	¹³ C ₁₈ H ₃₄ O ₂		
Molecular Weight:	300.33		
Target:	Apoptosis; Na ⁺ /K ⁺ ATPase; Endogenous Metabolite		
Pathway:	Apoptosis; Membrane Transporter/Ion Channel; Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 100 mg/mL (332.97 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.3297 mL	16.6484 mL	33.2967 mL
5 mM	0.6659 mL	3.3297 mL	6.6593 mL
10 mM	0.3330 mL	1.6648 mL	3.3297 mL

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

BIOLOGICAL ACTIVITY

Description

Oleic acid-¹³C₁₈ is the ¹³C labeled Oleic acid. Oleic acid (9-cis-Octadecenoic acid) is an abundant monounsaturated fatty acid[1]. Oleic acid is a Na⁺/K⁺ ATPase activator[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.

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

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