

Nonadecanoic acid-d₃₇

Cat. No.:	HY-W004261S		
CAS No.:	1219798-49-8		
Molecular Formula:	C ₁₉ HD ₃₇ O ₂		
Molecular Weight:	335.73		
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

DMSO : 6.67 mg/mL (19.87 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9786 mL	14.8929 mL	29.7858 mL
	5 mM	0.5957 mL	2.9786 mL	5.9572 mL
	10 mM	0.2979 mL	1.4893 mL	2.9786 mL

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

BIOLOGICAL ACTIVITY

Description

Nonadecanoic acid-d₃₇ is the deuterium labeled Nonadecanoic acid. Nonadecanoic acid is a 19-carbon long saturated fatty acid. Nonadecanoic acid is the major constituent of the substance secreted by *Rhinotermes marginalis* to defence^[1].

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]. S.Blum, et al. Biochemistry of termite defenses: *Coptotermes*, *rhinotermes* and *Cornitermes* species. *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry.* 1982.

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

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