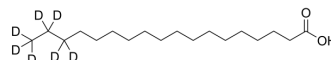


Stearic acid-d₇

Cat. No.:	HY-B2219S9		
CAS No.:	951209-59-9		
Molecular Formula:	C ₁₈ H ₂₉ D ₇ O ₂		
Molecular Weight:	291.52		
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 : ≥ 14.29 mg/mL (49.02 mM)
 DMSO : ≥ 14.29 mg/mL (49.02 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		3.4303 mL	17.1515 mL	34.3030 mL
	5 mM		0.6861 mL	3.4303 mL	6.8606 mL
	10 mM		0.3430 mL	1.7151 mL	3.4303 mL

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

BIOLOGICAL ACTIVITY

Description

Stearic acid-d₇ is the deuterium labeled Stearic acid. Stearic acid is a long chain dietary saturated fatty acid which exists in many animal and vegetable fats and oils.

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]. Shen MC et al. Dietary stearic acid leads to a reduction of visceral adipose tissue in athymic nude mice. PLoS One. 2014 Sep 15;9(9):e104083.

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

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