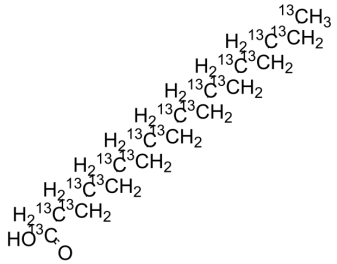
Stearic acid-$^{13}C_{18}$

Cat. No.:	HY-B2219S2
CAS No.:	287100-83-8
Molecular Formula:	$^{13}C_{18}H_{36}O_2$
Molecular Weight:	302.35
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
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 : 25 mg/mL (82.69 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.3074 mL	16.5371 mL	33.0742 mL
	5 mM	0.6615 mL	3.3074 mL	6.6149 mL
	10 mM	0.3307 mL	1.6537 mL	3.3074 mL

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

BIOLOGICAL ACTIVITY

Description

Stearic acid-$^{13}C_{18}$is the ^{13}C-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.

[2]. 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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