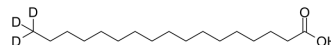


Heptadecanoic acid-d₃

Cat. No.:	HY-W004284S
CAS No.:	202528-95-8
Molecular Formula:	C ₁₇ H ₃₁ D ₃ O ₂
Molecular Weight:	273.47
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description

Heptadecanoic acid-d₃ is the deuterium labeled Heptadecanoic acid. Heptadecanoic acid is an odd chain saturated fatty acid (OCS-FA). Heptadecanoic acid is associated with several diseases, including the incidence of coronary heart disease, prediabetes and type 2 diabetes as well as multiple sclerosis[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]. Changzhi Xu, et al. Heptadecanoic acid inhibits cell proliferation in PC99 non-small cell lung cancer cells with acquired gefitinib resistance. *Oncol Rep.* 2019 Jun;41(6):3499-3507.

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

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