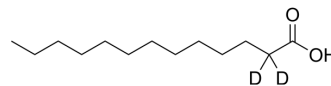


Tridecanoic acid-d₂

Cat. No.:	HY-Y1718S
CAS No.:	64118-44-1
Molecular Formula:	C ₁₃ H ₂₄ D ₂ O ₂
Molecular Weight:	216.36
Target:	Bacterial; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Anti-infection; Metabolic Enzyme/Protease; Others
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	Tridecanoic acid-d ₂ is the deuterium labeled Tridecanoic acid. Tridecanoic acid (N-Tridecanoic acid), a 13-carbon medium-chain saturated fatty acid, can serve as an antipersister and antibiofilm agent that may be applied to research bacterial infections. Tridecanoic acid inhibits Escherichia coli persistence and biofilm formation[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]. Jin X, et, al. Undecanoic acid, lauric acid, and N-tridecanoic acid inhibit Escherichia coli persistence and biofilm formation. *J Microbiol Biotechnol.* 2020 Oct 13.

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

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