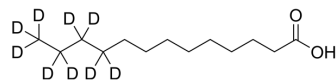


Tridecanoic acid-d₉

| | |
|--------------------|---|
| Cat. No.: | HY-Y1718S2 |
| Molecular Formula: | C ₁₃ H ₁₇ D ₉ O ₂ |
| Molecular Weight: | 223.4 |
| Target: | Bacterial; Endogenous Metabolite; Isotope-Labeled Compounds |
| Pathway: | Anti-infection; Metabolic Enzyme/Protease; Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | Tridecanoic acid-d ₉ 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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