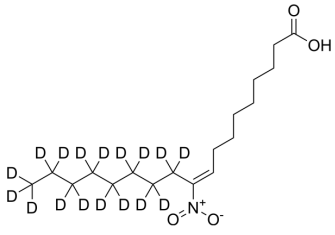
10-Nitrooleate-d17 nitrate

Cat. No.:	HY-101559S
CAS No.:	2749984-40-3
Molecular Formula:	$C_{18}H_{16}D_{17}NO_4$
Molecular Weight:	344.56
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	10-Nitrooleate-d17 nitrate is the deuterium labeled 10-Nitrooleic acid nitrate. 10-Nitrooleic acid (CXA-10) nitrate, a nitro fatty acid, has potential effects in disease states in which oxidative stress, inflammation, fibrosis, and/or direct tissue toxicity play significant roles[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]. Garner RM, Mould DR, Chieffo C, Jorkasky DK. Pharmacokinetic and Pharmacodynamic Effects of Oral CXA-10, a Nitro Fatty Acid, After Single and Multiple Ascending Doses in Healthy and Obese Subjects. Clin Transl Sci. 2019;12(6):667-676.

[3]. Zheng R, et al. Regulation of keratinocyte expression of stress proteins and antioxidants by the electrophilic nitrofatty acids 9- and 10-nitrooleic acid. Free Radic Biol Med. 2014;67:1-9.

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