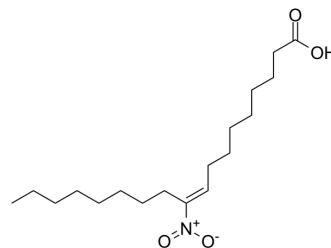


10-Nitrooleic acid

Cat. No.:	HY-101559
CAS No.:	875685-46-4
Molecular Formula:	C ₁₈ H ₃₃ NO ₄
Molecular Weight:	327.46
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	10-Nitrooleic acid (CXA-10), 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	10-Nitrooleic acid (5-25 μM; mouse keratinocytes) regulates expression of HO-1, hsp27, hsp70, Cox-2, and the glutathione-S-transferases GSTA1-2, GSTA3 and GSTA4 in a generally similar manner ^[1] . 10-Nitrooleic acid (10 μM; 0-6 hours) upregulates HO-1 protein in time- and concentration-dependent manners. 10-Nitrooleic acid also upregulates protein expression for Cox-2, hsp27, hsp70 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. 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.
- [2]. 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.

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

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