

10-Nitrooleic acid

Chemical Properties

CAS No. : 875685-46-4

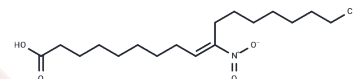
Formula: C₁₈H₃₃NO₄

Molecular Weight: 327.46

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	10-Nitrooleic acid (CXA-10) is a nitrated unsaturated fatty acid and endogenous signaling molecule with multifaceted roles in oxidative stress, inflammation, metabolism, and other processes.
Targets(IC50)	Endogenous Metabolite
In vitro	10-Nitrooleic acid (5-25 μ M) upregulates HO-1, Cox-2, hsp27, and hsp70 in mouse keratinocytes [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0538 mL	15.269 mL	30.5381 mL
5 mM	0.6108 mL	3.0538 mL	6.1076 mL
10 mM	0.3054 mL	1.5269 mL	3.0538 mL
50 mM	0.0611 mL	0.3054 mL	0.6108 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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.

Schopfer FJ, Lin Y, Baker PR, et al. Nitrolinoleic acid: an endogenous peroxisome proliferator-activated receptor gamma ligand. Proc Natl Acad Sci U S A. 2005;102(7):2340-2345.

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