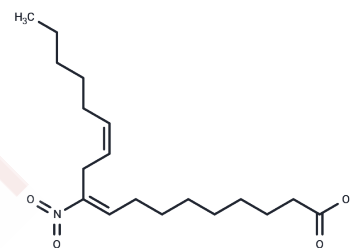


10-Nitrolinoleic acid

Chemical Properties

CAS No. :	774603-04-2
Formula:	C ₁₈ H ₃₁ NO ₄
Molecular Weight:	325.44
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-Nitrolinoleate is the product of nitration of linoleate by NO-derived reactive species. Other nitrolinoleates detected in human plasma and urine include 9-, 12-, and 13-nitrolinoleate. Nitrolinoleates activate peroxisome proliferator-activated receptor γ (PPAR γ ; $K_i = 133$ nM), inducing CD36 expression in macrophages, adipocyte differentiation, and glucose uptake. Nitrolinoleates can also be metabolized by smooth muscle cells to produce nitrite derivatives which in turn form NO, leading to increased cGMP production and smooth muscle relaxation. Through the same mechanism, nitrolinoleate-derived NO suppresses leukocyte adhesion, in part through nitrosation of CD40. Alternatively, nitrolinoleates can act independently of NO/cGMP and PPAR γ signaling to suppress neutrophil and macrophage functions.
Targets(IC50)	Others,PPAR

Solubility Information

Solubility	DMSO: 25 mg/mL (76.82 mM),Sonication is recommended. DMF: 30 mg/mL (92.18 mM),Sonication is recommended. Ethanol:PBS(pH 7.2) (1:1): 0.5 mg/mL (1.54 mM),Sonication is recommended. Ethanol: 30 mg/mL (92.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0728 mL	15.3638 mL	30.7276 mL
5 mM	0.6146 mL	3.0728 mL	6.1455 mL
10 mM	0.3073 mL	1.5364 mL	3.0728 mL
50 mM	0.0615 mL	0.3073 mL	0.6146 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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