Data Sheet (Cat.No.T38596)

TargetMol
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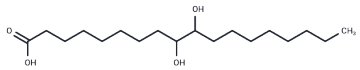
9,10-Dihydroxystearic acid

Chemical Properties



CAS No. : 120-87-6

Formula: C18H36O4

Molecular Weight: 316.48

Appearance: no data available

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

Biological Description

Description	9,10-Dihydroxystearic acid, an oxidation derivative of oleic acid, exhibits beneficial effects on glucose tolerance and insulin sensitivity in KKAy mice.
In vitro	At concentrations of 5-20 μmol/L, 9,10-Dihydroxystearic acid (DHSA) does not activate PPAR-γ in CV-1 cells, whereas at higher concentrations of 50-100 μmol/L, DHSA activates PPAR-γ in a dose-dependent manner. Additionally, 9,10-Dihydroxystearic acid fails to activate PPAR-α in CV-1 cells[1].
In vivo	Treatment with 9,10-Dihydroxystearic acid (DHSA), incorporated into a high-fat diet at a concentration of 4% and administered for 5-6 weeks, enhances glucose tolerance and insulin sensitivity in KKAy mice[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1598 mL	15.7988 mL	31.5976 mL
5 mM	0.632 mL	3.1598 mL	6.3195 mL
10 mM	0.316 mL	1.5799 mL	3.1598 mL
50 mM	0.0632 mL	0.316 mL	0.632 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.

Reference

Xiaoming Yu, et al. Effects of 9,10-dihydroxysteatic acid on glucose metabolism in KKAy mice. Wei Sheng Yan Jiu. 2010 Jul;39(4):423-5.

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