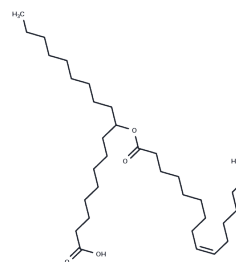


9-POHSA

Chemical Properties

CAS No. :	1481636-43-4
Formula:	C34H64O4
Molecular Weight:	536.882
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	Branched fatty acid esters of hydroxy fatty acids (FAHFAs) are recent discoveries in endogenous lipids that are influenced by dietary changes such as fasting and high-fat diets, showing a link with enhanced insulin sensitivity in mice. These compounds typically feature a C-16 or C-18 fatty acid (e.g., palmitoleic, palmitic, oleic, or stearic acid) bound to a hydroxy group on another C-16 or C-18 fatty chain. A specific FAHFA, 9-POHSA, consists of palmitoleic acid connected at the hydroxy stearic acid's 9th position. This molecule, in particular, exhibits notably increased levels in the serum of glucose-tolerant AG40X mice, which express the Glut4 glucose transporter predominantly in their adipose tissue. Given the broader family of FAHFAs' roles in enhancing glucose tolerance, promoting insulin secretion, and exerting anti-inflammatory effects, 9-POHSA emerges as a potential bioactive lipid involved in managing metabolic syndrome and inflammation.
Targets(IC50)	Others,Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8626 mL	9.3131 mL	18.6261 mL
5 mM	0.3725 mL	1.8626 mL	3.7252 mL
10 mM	0.1863 mL	0.9313 mL	1.8626 mL
50 mM	0.0373 mL	0.1863 mL	0.3725 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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