

## 5-POHSA

## Chemical Properties

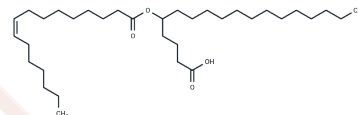
CAS No. : 2161370-68-7

Formula: C34H64O4

Molecular Weight: 536.9

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), endogenous lipids influenced by fasting and high-fat diets, are linked to improved insulin sensitivity in mice. These molecules consist of a C-16 or C-18 fatty acid (e.g., palmitoleic, palmitic, oleic, or stearic acid) bonded to a C-16 or C-18 hydroxy fatty acid. A specific FAHFA, 5-POHSA, features palmitoleic acid esterified with hydroxy stearic acid at the 5th carbon. Elevated levels of 5-POHSA in the serum of AG40X mice, which express high levels of the Glut4 glucose transporter in adipose tissue, correlate with glucose tolerance. Like other FAHFAs that enhance glucose tolerance, stimulate insulin secretion, and exhibit anti-inflammatory properties, 5-POHSA may play a role in managing metabolic syndrome and inflammation.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8625 mL	9.3127 mL	18.6254 mL
5 mM	0.3725 mL	1.8625 mL	3.7251 mL
10 mM	0.1863 mL	0.9313 mL	1.8625 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.

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