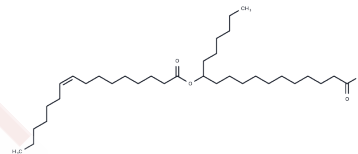


## 12-POHSA

## Chemical Properties

CAS No. :	2042646-31-9
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) have emerged as significant regulators of metabolic processes, influenced by dietary changes such as fasting and high-fat diets, and are linked to improved insulin sensitivity in mice. These compounds typically feature a fatty acid chain, either C-16 or C-18 in length (for example, palmitoleic, palmitic, oleic, or stearic acid), esterified to a hydroxy fatty acid of similar length. A specific FAHFA, 12-POHSA, involves the esterification of palmitoleic acid to the 12th carbon of stearic acid. Notably, 12-POHSA levels are markedly higher in the serum of AG40X mice, which exhibit enhanced glucose tolerance due to overexpression of the Glut4 glucose transporter in adipose tissue. Given the capacity of FAHFAs to enhance glucose tolerance, stimulate insulin secretion, and exert anti-inflammatory actions, 12-POHSA holds potential as a bioactive lipid implicated in managing metabolic syndrome and inflammation.
Targets(IC50)	Others,Endogenous Metabolite

## 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481