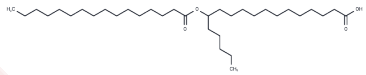
Data Sheet (Cat.No.T84407)

TargetMol

13-PAHSA

Chemical Properties



CAS No. : 2169306-42-5

Formula: C34H66O4

Molecular Weight: 538.9

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) are lipids influenced by dietary changes, playing a crucial role in insulin sensitivity. These compounds typically consist of a C-16 or C-18 fatty acid (for example, palmitoleic, palmitic, oleic, or stearic acid) linked to a hydroxy fatty acid with the same carbon chain length. 13-PAHSA, a derivative where palmitic acid is esterified to 13-hydroxy stearic acid, is notably prevalent in the adipose tissue of glucose-tolerant AG4OX mice, which exhibit enhanced glucose transport via the overexpression of the Glut4 glucose transporter. This observation, along with the metabolic benefits seen from other FAHFAs—including improved glucose tolerance, stimulated insulin secretion, and anti-inflammatory properties—suggests that 13-PAHSA may function as a bioactive lipid beneficial in managing metabolic syndrome and inflammation.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8556 mL	9.2782 mL	18.5563 mL
5 mM	0.3711 mL	1.8556 mL	3.7113 mL
10 mM	0.1856 mL	0.9278 mL	1.8556 mL
50 mM	0.0371 mL	0.1856 mL	0.3711 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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