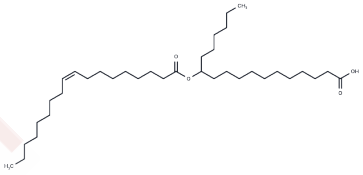
Data Sheet (Cat.No.T84430)

TargetMol

12-OAHSA

Chemical Properties



CAS No. : 101901-73-9

Formula: C36H68O4

Molecular Weight: 564.9

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 recently discovered lipids that play a role in the body's response to fasting and high-fat diets, with a link to insulin sensitivity. These compounds consist of a long-chain fatty acid (such as palmitoleic, palmitic, oleic, or stearic acid) bonded to a hydroxy fatty acid, both ranging in length from C-16 to C-18. Specifically, 12-OAHSA is a type of FAHFA where oleic acid is attached to the 12th carbon of hydroxy stearic acid. Within the FAHFA family, OAHSAs are particularly notable for their high concentration in the serum of AG4OX mice, a strain engineered to express the Glut4 glucose transporter predominantly in their adipose tissue, which demonstrates an enhanced glucose tolerance.
Targets(IC50)	Others,Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7702 mL	8.8511 mL	17.7022 mL
5 mM	0.354 mL	1.7702 mL	3.5404 mL
10 mM	0.177 mL	0.8851 mL	1.7702 mL
50 mM	0.0354 mL	0.177 mL	0.354 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.

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