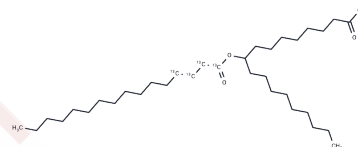


9-PAHSA-13C4

Chemical Properties

CAS No. :	2748638-71-1
Formula:	C30[13C]4H66O4
Molecular Weight:	542.9
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 a class of endogenous lipids whose levels are modulated by fasting and high-fat diets, and they play a role in insulin sensitivity. These compounds consist of a fatty acid—either a C-16 or C-18, such as palmitoleic, palmitic, oleic, or stearic acid—esterified to a hydroxylated C-16 or C-18 lipid. One notable FAHFA, 9-PAHSA, features an ester linkage between palmitic acid and 9-hydroxy stearic acid. PAHSAs, with 9-PAHSA being the most prevalent isomer, are significantly found in the serum and both white and brown adipose tissues of glucose-tolerant AG40X mice, which express the Glut4 gene in adipose tissue, enhancing insulin sensitivity. Additionally, 9-PAHSA is abundant in wild type and AG40X mice and present in humans, though at reduced levels in those with insulin resistance. 9-PAHSA is associated with improved glucose tolerance, enhanced insulin secretion, and anti-inflammatory effects in mice. The compound 9-PAHSA-13C4 represents an isotopically enriched form of this polyunsaturated fatty acid.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.842 mL	9.2098 mL	18.4196 mL
5 mM	0.3684 mL	1.842 mL	3.6839 mL
10 mM	0.1842 mL	0.921 mL	1.842 mL
50 mM	0.0368 mL	0.1842 mL	0.3684 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