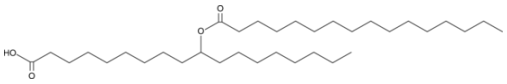
Product Data Sheet

Product Name: 10-PAHSA
Cat. No.: GC40319

Chemical Properties

Cas. No.	1636134-73-0		
SMILES	CCCCCCCCC(OC(CCCCCCCCCCCCCCC)=O)CCCCCCCCC(O)=O		
Formula	C34H66O4	M.Wt	538.9
Solubility	DMF: 20 mg/mL,DMSO: 15 mg/mL,Ethanol: 20 mg/mL,Ethanol:PBS(pH 7.2) (1:1): 0.5 mg/mL	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

10-PAHSA is a newly identified endogenous lipid that belongs to a collection of branched fatty acid esters of hydroxy fatty acids (FAHFAs). It is a FAHFA in which palmitic acid is esterified to 10-hydroxy stearic acid. Among the FAHFA family members, PAHSAs are the most abundant in the adipose tissue of glucose tolerant AG4OX mice, which overexpress the Glut4 glucose transporter specifically in adipose tissue. As other FAHFAs improve glucose tolerance, stimulate insulin secretion, and have anti-inflammatory effects, 10-PAHSA may be a bioactive lipid with roles in metabolic syndrome and inflammation.

Caution: Product has not been fully validated for medical applications. For research use only.
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