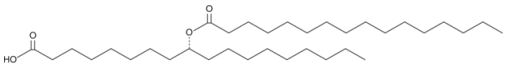
Product Data Sheet

Product Name: 9(R)-PAHSA
Cat. No.: GC40323

Chemical Properties

Cas. No.	2097130-84-0		
SMILES	OC(CCCCCCC[C@H](OC(CCCCCCCCCCCCCCC)=O)CCCCCCCCC)=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

9(R)-PAHSA is a stereoisomer of 9-PAHSA , an endogenous lipid that belongs to a collection of branched fatty acid esters of hydroxy fatty acids (FAHFAs). 9-PAHSA is a FAHFA in which palmitic acid is esterified to 9-hydroxy stearic acid. 9(R)-PAHSA is the predominant form that accumulates in adipose tissues in AG4OX mice, which overexpress Glut4 specifically in adipose tissue. Also, cell lines favor the production of 9(R)-PAHSA, and carboxyl ester lipase selectively hydrolyzes 9(S)-PAHSA .The use of this optically-active FAHFA product (the "Product") is covered by U.S. Patent No. 10,240,025 and corresponding foreign counterpart applications. These patents and applications are licensed by pursuant to an agreement with BT Food, Drug and Personal Care, LLC, and this Product is sold exclusively for research and development purposes only. Product may not be used for human studies, veterinary use or diagnostics, clinical trial work, clinical diagnostics, or any other clinical trial or approval activities related to humans or animals. This limited label license does not grant any right to use the Product or a Product derivative in commercial products or services.

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