

Product Data Sheet

Product Name: 10(R)-PAHSA

Cat. No.: GC40317

Chemical Properties

Cas. No. 2270844-02-3

SMILES CCCCCCCC[C@@H](OC(CCCCCCCCCCCCCCCC)=O)CCCCCCCCC(O)=O

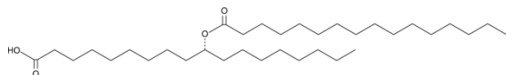
Formula C₃₄H₆₆O₄ M.Wt 538.9

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(R)-PAHSA is a stereoisomer of 10-PAHSA, an endogenous lipid that belongs to a collection of branched fatty acid esters of hydroxy fatty acids (FAHFAs). It is an 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. A study using synthesized (R)- and (S)- stereoisomers of 9-PAHSA reported that the 9(R)-PAHSA is the predominant form that accumulates in adipose tissues in vivo. 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.

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

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