

Product Data Sheet

Product Name: 13-PAHSA

Cat. No.: GC40321

Chemical Properties

Cas. No. 2169306-42-5

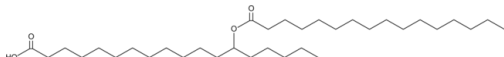
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Formula C34H66O4 M.Wt 538.9

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

Branched fatty acid esters of hydroxy fatty acids (FAHFAs) are newly identified endogenous lipids regulated by fasting and high-fat feeding and associated with insulin sensitivity. Structurally, these esters are comprised of a C-16 or C-18 fatty acid (e.g., palmitoleic, palmitic, oleic, or stearic acid) linked to either a C-16 or C-18 hydroxy substituent. 13-PAHSA is a FAHFA in which palmitic acid is esterified to 13-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, 13-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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