

Product Data Sheet

Product Name: 10-PAHSA 13C4

Cat. No.: GC41870

Chemical Properties

Cas. No. 2705244-93-3

SMILES CCCCCCCCC(O[13C]([13CH2][13CH2][13CH2]CCCCCCCCCCCC)=O)CCCCCCCCC(O)=O

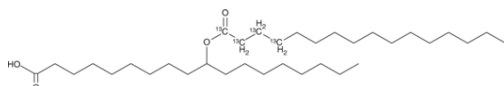
Formula C30[13C]4H66O4 M.Wt 542.9

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 13C4 is an isotopically enriched form of the polyunsaturated fatty acid 10-PASHA with carbon-13 incorporated at positions 1, 2, 3, and 4. It is intended for use as an internal standard for the quantification of 10-PAHSA by GC- or LC-MS. 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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