

Product Data Sheet

Product Name: 10-PAHSA-d31

Cat. No.: GC46405

Chemical Properties

Cas. No. 2748489-85-0

[illegible]

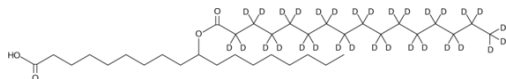
Formula	C34H35D31O4	M.Wt	570.1
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Solubility	DMF: 20 mg/ml,DMSO: 15 mg/ml,Ethanol: 20 mg/ml,Ethanol:PBS(pH 7.2) (1:1): 0.5 mg/ml	Storage	Store at -20°C
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General tips	For obtaining a higher solubility , 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.
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Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
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Structure



Background

10-PAHSA-d₃₁ contains 31 deuterium atoms and 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). 10-PAHSA 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.¹ 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.

1.Yore, M.M., Syed, I., Moraes-Vieira, P.M., et al.Discovery of a class of endogenous mammalian lipids with anti-diabetic and anti-inflammatory effectsCell.159(2)318-332(2014)

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

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