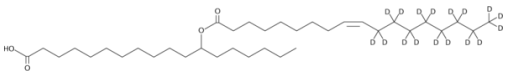
# Product Data Sheet

Product Name: 12-OAHSA-d17
Cat. No.: GC46417

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 2749984-52-7 | | |
| SMILES | OC(CCCCCCCCCCC(OC(CCCCCCC/C=C\C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])[2H])=O)CCCCCC)=O | | |
| Formula | C36H51D17O4 | M.Wt | 582 |
| 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

12-OAHSA-$d_{17}$ contains 17 deuterium atoms at the 11, 11', 12, 12', 13, 13', 14, 14', 15, 15', 16, 16', 17, 17', 18, 18, and 18 positions. It is intended for use as an internal standard for the quantification of 12-OAHSA by GC- or LC-mass spectrometry. 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.[1] 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. 12-OAHSA is a FAHFA in which oleic acid is esterified at the 12th carbon of hydroxy stearic acid. Among the FAHFA family members, OAHSAs are the most abundantly expressed in the serum of glucose tolerant AG4OX mice, which overexpress the Glut4 glucose transporter specifically in adipose tissue.[1]

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

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