

Product Data Sheet

Product Name: 9-hydroxy Stearic Acid

Cat. No.: GC48986

Chemical Properties

Cas. No. 3384-24-5

SMILES OC(CCCCCCCC(O)CCCCCCCCC)=O

Formula C₁₈H₃₆O₃

M.Wt 300.5

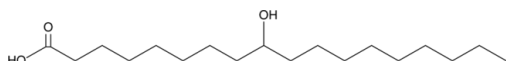
Solubility Chloroform: soluble

Storage -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

9-hydroxy Stearic acid is a hydroxy fatty acid and an active metabolite of 9-PAHSA.^{1,2} It is formed from 9-PAHSA by liver and pancreatic carboxyl ester lipases.² 9-hydroxy Stearic acid (5 µM) inhibits histone deacetylase 1 (HDAC1) in HT-29 colon cancer cell lysates.³ It inhibits the proliferation of, and induces cell cycle arrest at the G₀/G₁ phase in, HT-29 cells when used at a concentration of 100 µM.¹

1. Calonghi, N., Cappadone, C., Pagnotta, E., et al. 9-Hydroxystearic acid upregulates p21WAF1 in HT29 cancer cells *Biochem. Biophys. Res. Commun.* 314(1)138-142(2004) 2. Kolar, M.J., Kamat, S.S., Parsons, W.H., et al. Branched fatty acid esters of hydroxy fatty acids are preferred substrates of the MODY8 protein carboxyl ester lipase *Biochemistry* 55(33)4636-4641(2016) 3. Calonghi, N., Cappadone, C., Pagnotta, E., et al. Histone deacetylase 1: A target of 9-hydroxystearic acid in the inhibition of cell growth in human colon cancer *J. Lipid Res.* 46(8)1596-1603(2005)

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

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