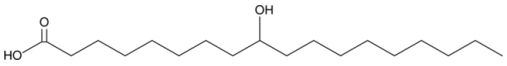
Product Data Sheet

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 G_0/G_1 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 cellsBiochem. 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 lipaseBiochemistry55(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 cancerJ. Lipid Res.46(8)1596-1603(2005)

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA