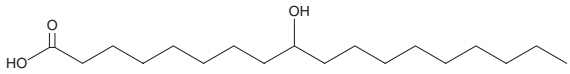
PRODUCT INFORMATION

9-hydroxy Stearic Acid

Item No. 18016

CAS Registry No.: 3384-24-5
Formal Name: 9-hydroxy-octadecanoic acid
Synonyms: 9-HSA, 9-hydroxy Octadecanoic Acid
MF: $C_{18}H_{36}O_3$
FW: 300.5
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

9-hydroxy Stearic acid is supplied as a solid. A stock solution may be made by dissolving the 9-hydroxy stearic acid in the solvent of choice, which should be purged with an inert gas. 9-hydroxy Stearic acid is soluble in the organic solvent chloroform.

Description

9-hydroxy Stearic acid is a hydroxy fatty acid and an active metabolite of 9-PAHSA (Item No. 17037).[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]

References

1. Calonghi, N., Cappadone, C., Pagnotta, E., *et al.* 9-Hydroxystearic acid upregulates $p21^{WAF1}$ 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).

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