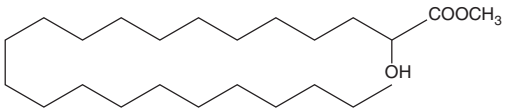
PRODUCT INFORMATION

2-hydroxy Tricosanoic Acid methyl ester

Item No. 24598

CAS Registry No.: 118745-41-8
Formal Name: 2-hydroxy-tricosanoic acid, methyl ester
Synonym: Methyl 2-hydroxytricosanoate
MF: $C_{24}H_{48}O_3$
FW: 384.6
Purity: ≥98%
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

2-hydroxy Tricosanoic acid methyl ester is supplied as a solid. A stock solution may be made by dissolving the 2-hydroxy tricosanoic acid methyl ester in the solvent of choice, which should be purged with an inert gas. 2-hydroxy Tricosanoic acid methyl ester is soluble in organic solvents such as chloroform and ethyl ether.

Description

2-hydroxy Tricosanoic acid methyl ester is a hydroxylated fatty acid methyl ester that has been found in ripe and unripe strawberry homogenates, *Pseudosuberites* and *S. massa* sea sponges, sediment samples from the Harney River, and the aerial parts of *A. pilosa*.[1-4] It inhibits protein tyrosine phosphatase 1B (PTP1B) and α-glucosidase with IC_{50} values of 36.39 and 112.8 µM, respectively.[4]

References

1. Gorst-Allman, C.P. and Spiteller, G. Investigation of lipoxygenase-like activity in strawberry homogenates. *Z. Lebensm. Unters. Forsch.* **187(4)**, 330-333 (1988).
2. Barnathan, G., Kornprobst, J.-M., Doumenq, P., *et al.* Sponge fatty acids, 5. Characterization of complete series of 2-hydroxy long-chain fatty acids in phospholipids of two Senegalese marine sponges from the family suberitidae: *Pseudosuberites* sp. and *Suberites massa*. *J. Nat. Prod.* **56(12)**, 2104-2113 (2004).
3. Jaffé, R., Rushdi, A.I., Medeiros, P.M., *et al.* Natural product biomarkers as indicators of sources and transport of sedimentary organic matter in a subtropical river. *Chemosphere* **64(11)**, 1870-1884 (2006).
4. Na, B.R., Nguyen, P.-H., Zhao, B.-T., *et al.* Protein tyrosine phosphatase 1B (PTP1B) inhibitory activity and glucosidase inhibitory activity of compounds isolated from *Agrimonia pilosa*. *Pharm. Biol.* **54(3)**, 474-480 (2016).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM