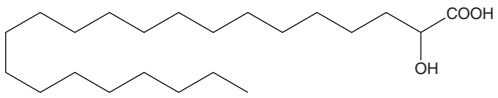
PRODUCT INFORMATION

2-hydroxy Docosanoic Acid

Item No. 24594

CAS Registry No.: 13980-14-8
Formal Name: 2-hydroxy-docosanoic acid
Synonyms: 2-hydroxy Behenic Acid,
α-hydroxy Behenic Acid,
2-hydroxy DCA, α-hydroxy DCA,
(±)-2-hydroxy DCA, (±)-α-hydroxy DCA,
(±)-2-hydroxy Docosanoic Acid,
(±)-α-hydroxy Docosanoic Acid



MF: $C_{22}H_{44}O_3$
FW: 356.6
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 Docosanoic acid is supplied as a solid. A stock solution may be made by dissolving the 2-hydroxy docosanoic acid in the solvent of choice. 2-hydroxy Docosanoic acid is soluble in a 5:1 solution of chloroform:methanol.

Description

2-hydroxy Docosanoic acid is a hydroxylated fatty acid that has been found in the mature black epidermis of the Antarctic minke whale, as the N-acyl chain of galactosylceramides in mouse brain, and the inner bark of *E. globulus*.[1-3] It is upregulated in prostate carcinoma tissue as compared to normal prostate epithelium.[4]

References

1. Yunoki, K., Ishikawa, H., Fukui, Y., *et al.* Chemical properties of epidermal lipids, especially sphingolipids, of the Antarctic minke whale. *Lipids* **43(2)**, 151-159 (2008).
2. Alderson, N.L., Maldonado, E.N., Kern, M.J., *et al.* FA2H-dependent fatty acid 2-hydroxylation in postnatal mouse brain. *J. Lipid Res.* **47(12)**, 2772-2780 (2006).
3. Freire, C.S.R., Silvestre, A.J.D., Neto, C.P., *et al.* Lipophilic extractives of the inner and outer barks of *Eucalyptus globulus*. *Holzforschung* **56(4)**, 372-379 (2002).
4. Jung, K., Reszka, R., Kamlage, B., *et al.* Tissue metabolite profiling identifies differentiating and prognostic biomarkers for prostate carcinoma. *Int. J. Cancer* **133(12)**, 2914-2924 (2013).

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