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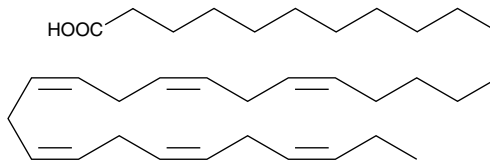
Product Information



Tetratriaconta-16(Z),19(Z),22(Z),25(Z),28(Z),31(Z)-hexaenoic Acid

Item No. 10539

CAS Registry No.: 105528-06-1
Formal Name: 16Z,19Z,22Z,25Z,28Z,31Z-tetratriacontahexaenoic acid
MF: C₃₄H₅₆O₂
FW: 496.8
Purity: ≥95%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol
UV/Vis.: λ_{max}: 233 nm



Laboratory Procedures

For long term storage, we suggest that tetratriaconta-16(Z),19(Z),22(Z),25(Z),28(Z),31(Z)-hexaenoic acid be stored as supplied at -20°C. It should be stable for at least one year.

Tetratriaconta-16(Z),19(Z),22(Z),25(Z),28(Z),31(Z)-hexaenoic acid is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of tetratriaconta-16(Z),19(Z),22(Z),25(Z),28(Z),31(Z)-hexaenoic acid in these solvents is approximately 100 mg/ml.

Tetratriaconta-16(Z),19(Z),22(Z),25(Z),28(Z),31(Z)-hexaenoic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of tetratriaconta-16(Z),19(Z),22(Z),25(Z),28(Z),31(Z)-hexaenoic acid should be diluted with the aqueous buffer of choice. Tetratriaconta-16(Z),19(Z),22(Z),25(Z),28(Z),31(Z)-hexaenoic acid has a solubility of 1 mg/ml in a solution of 0.15 M Tris-HCl (pH 8.5) using this method. We do not recommend storing the aqueous solution for more than one day.

Very long chain polyunsaturated fatty acids (VLCPUFAs) are important components of ceramides and sphingomyelin and are present in retina, sperm, and brain.¹⁻³ Tetratriaconta-16(Z),19(Z),22(Z),25(Z),28(Z),31(Z)-hexaenoic acid is a C₃₄:6 VLCPUFA whose specific biological actions are largely unknown. This VLCPUFA, along with others, has been investigated for its role in activating protein kinase C.⁴

References

1. Aveldaño, M.I. Phospholipid species containing long and very long polyenoic fatty acids remain with rhodopsin after hexane extraction of photoreceptor membranes. *Biochemistry* **27**, 1229-1239 (1988).
2. Robinson, B.S., Johnson, D.W., and Poulos, A. Novel molecular species of spingomyelin containing 2-hydroxylated polyenoic very-long-chain fatty acids in mammalian testes and spermatozoa. *J. Biol. Chem.* **267**, 1746-1751 (1992).
3. Robinson, B.S., Johnson, D.W., and Poulos, A. Unique molecular species of phophatidylcholine containing very-long-chain (C₂₄-C₃₈) polyenoic fatty acids in rat brain. *Biochem. J.* **265**, 763-7 (1990).
4. Hardy, S.J., Ferrante, A., Robinson, B.S., *et al.* *In vitro* activation of rat brain protein kinase C by polyenoic very-long-chain fatty acids. *J. Neurochem.* **62**(4), 1546-51 (1994).

Related Products

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY. NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

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