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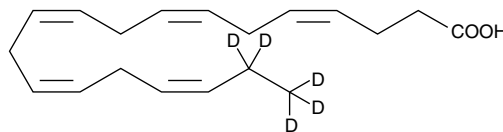
Product Information



4(Z),7(Z),10(Z),13(Z),16(Z)-Nonadecapentaenoic Acid-d₅

Item No. 14893

Formal Name: (4Z,7Z,10Z,13Z,16Z)-nonadeca-4,7,10,13,16-pentaenoic-18,18',19,19,19-d₅ acid
MF: C₁₉H₂₃D₅O₂
FW: 293.5
Chemical Purity: ≥90% 4(Z),7(Z),10(Z),13(Z),16(Z)-Nonadecapentaenoic Acid



Deuterium Incorporation: ≥99% deuterated forms (d₁-d₅); ≤1% d₀
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol

Laboratory Procedures

4(Z),7(Z),10(Z),13(Z),16(Z)-Nonadecapentaenoic acid-d₅ contains five deuterium atoms at the 18, 18', 19, 19, and 19 positions. It is intended for use as an internal standard for the quantification of 4(Z),7(Z),10(Z),13(Z),16(Z)-nonadecapentaenoic acid by GC- or LC-mass spectrometry (MS). For long term storage, we suggest that 4(Z),7(Z),10(Z),13(Z),16(Z)-nonadecapentaenoic acid-d₅ be stored as supplied at -20°C. It should be stable for at least one year.

4(Z),7(Z),10(Z),13(Z),16(Z)-Nonadecapentaenoic acid-d₅ 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 4(Z),7(Z),10(Z),13(Z),16(Z)-nonadecapentaenoic acid-d₅ in these solvents is approximately 50 mg/ml.

4(Z),7(Z),10(Z),13(Z),16(Z)-Nonadecapentaenoic acid-d₅ is used as an internal standard for the quantification of 4(Z),7(Z),10(Z),13(Z),16(Z)-nonadecapentaenoic acid by stable isotope dilution MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

4(Z),7(Z),10(Z),13(Z),16(Z)-Nonadecapentaenoic acid (19:5 n-3) is an impurity generated during the synthesis of docosahexaenoic acid-d₅ (Item No. 10005057). While the physiological properties of this compound are not known, dietary intake of n-3 long chain polyunsaturated fatty acids provides potential health benefits.¹

Reference

1. Vaughan, V.C., Hassing, M.-R., and Lewandowski, P.A. Marine polyunsaturated fatty acids and cancer therapy. *Br. J. Cancer* **108**, 486-492 (2013).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/14893

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

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer's exclusive remedy and Cayman's sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman's option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

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