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Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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Product Information



4(Z),7(Z),10(Z),13(Z)-Hexadecatetraenoic Acid-d₅

Item No. 14894

Formal Name: (4Z,7Z,10Z,13Z)-hexadeca-4,7,10,13-tetraenoic-15,15',16,16,16-d₅ acid

MF: C₁₆H₁₉D₅O₂

FW: 253.4

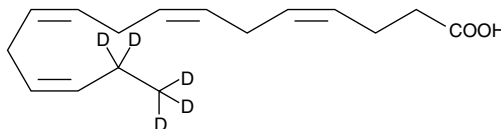
Chemical Purity: ≥90% 4(Z),7(Z),10(Z),13(Z)-Hexadecatetraenoic Acid

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)-Hexadecatetraenoic acid-d₅ contains five deuterium atoms at the 15, 15', 16, 16, and 16 positions. It is intended for use as an internal standard for the quantification of 4(Z),7(Z),10(Z),13(Z)-hexadecatetraenoic acid by GC- or LC-mass spectrometry (MS). For long term storage, we suggest that 4(Z),7(Z),10(Z),13(Z)-hexadecatetraenoic 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)-Hexadecatetraenoic 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 ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 4(Z),7(Z),10(Z),13(Z)-hexadecatetraenoic acid-d₅ in these solvents is approximately 50 mg/ml.

4(Z),7(Z),10(Z),13(Z)-Hexadecatetraenoic acid-d₅ is used as an internal standard for the quantification of 4(Z),7(Z),10(Z),13(Z)-hexadecatetraenoic 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)-Hexadecatetraenoic acid (16:4 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/14894

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.

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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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