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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

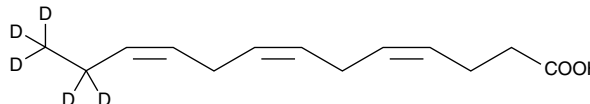
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Product Information



4(Z),7(Z),10(Z)-Tridecatrienoic Acid-d₅ Item No. 14895

Formal Name: (4Z,7Z,10Z)-trideca-4,7,10-trienoic-12,12',13,13,13-d₅ acid
MF: C₁₃H₁₅D₅O₂
FW: 213.3
Chemical Purity: ≥90% 4(Z),7(Z),10(Z)-Tridecatrienoic 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)-Tridecatrienoic acid-d₅ contains five deuterium atoms at the 12, 12', 13, 13, and 13 positions. It is intended for use as an internal standard for the quantification of 4(Z),7(Z),10(Z)-tridecatrienoic acid by GC- or LC-mass spectrometry (MS). For long term storage, we suggest that 4(Z),7(Z),10(Z)-tridecatrienoic acid-d₅ be stored as supplied at -20°C. It should be stable for at least one year.

4(Z),7(Z),10(Z)-Tridecatrienoic 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)-tridecatrienoic acid-d₅ in these solvents is approximately 50 mg/ml.

4(Z),7(Z),10(Z)-Tridecatrienoic acid-d₅ is used as an internal standard for the quantification of 4(Z),7(Z),10(Z)-tridecatrienoic 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)-Tridecatrienoic acid (13:3 n-3) is an impurity generated during the synthesis of docosahexaenoic acid-d₅ (Item No. 10005057). Tridecatrienoic acid has also been isolated as methyl esters from algae.¹ While the physiological properties of this compound are not known, dietary intake of n-3 long chain polyunsaturated fatty acids provides potential health benefits.²

References

1. Aliya, R., Shameel, M., Usmanhani, K., *et al.* Fatty acid compositions of two siphonaceous green algae from the coast of Karachi. *Pak. J. Pharm. Sci.* **8**, 47-54 (1995).
2. 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/14895

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.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com