



# SZABO SCANDIC

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## Produktinformation



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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## 15(S)-HEPE-d<sub>5</sub> ethyl ester

Item No. 33783

**Formal Name:** 15(S)-hydroxy-5Z,8Z,11Z,13E,17Z-eicosapentaenoic-19,19,20,20,20-d<sub>5</sub> acid, ethyl ester

**Synonyms:** 15(S)-hydroxy EPA-d<sub>5</sub> ethyl ester, 15(S)-hydroxy Eicosapentaenoic Acid-d<sub>5</sub> ethyl ester

**MF:** C<sub>22</sub>H<sub>29</sub>D<sub>5</sub>O<sub>3</sub>

**FW:** 351.5

**Chemical Purity:** ≥95% (15-HEPE ethyl ester)

**Deuterium**

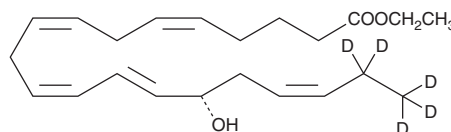
**Incorporation:** ≥99% deuterated forms (d<sub>1</sub>-d<sub>5</sub>); ≤1% d<sub>0</sub>

**UV/Vis.:** λ<sub>max</sub>: 237 nm

**Supplied as:** A solution in ethanol

**Storage:** -20°C

**Stability:** ≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

15(S)-HEPE-d<sub>5</sub> ethyl ester 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. 15(S)-HEPE-d<sub>5</sub> ethyl ester is soluble in 0.1 M sodium carbonate at a concentration of approximately 2 mg/ml.

15(S)-HEPE-d<sub>5</sub> ethyl ester is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of 15(S)-HEPE-d<sub>5</sub> ethyl ester should be diluted with the aqueous buffer of choice. The solubility of 15(S)-HEPE-d<sub>5</sub> ethyl ester in PBS (pH 7.2) is approximately 0.8 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

15(S)-HEPE ethyl ester is an esterified form of the monohydroxy fatty acid 15(S)-HEPE (Item No. 32710). 15(S)-HEPE is biosynthesized from eicosapentaenoic acid (EPA; Item Nos. 90110 | 90110.1 | 21908) by 15-lipoxygenase (15-LO).<sup>1,2</sup> 15(R)-HEPE is formed by aspirin-acetylated COX-2-mediated oxidation of EPA.<sup>3</sup>

### References

1. Miller, C., Yamaguchi, R.Y., and Ziboh, V.A. Guinea pig epidermis generates putative anti-inflammatory metabolites from fish oil polyunsaturated fatty acids. *Lipids* **24**(12), 998-1003 (1989).
2. Tan, L., Xin, X., Zhai, L., et al. *Drosophila* fed ARA and EPA yields eicosanoids, 15S-hydroxy-5Z,8Z, 11Z, 13E-eicosatetraenoic acid, and 15S-hydroxy-5Z,8Z,11Z,13E,17Z-eicosapentaenoic acid. *Lipids* **51**(4), 435-449 (2016).
3. Serhan, C.N., Clish, C.B., Brannon, J., et al. Anti-microinflammatory lipid signals generated from dietary N-3 fatty acids via cyclooxygenase-2 and transcellular processing: A novel mechanism for NSAID and N-3 PUFA therapeutic actions. *J. Physiol. Pharmacol.* **51**(4 Pt. 1), 643-654 (2000).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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