



# SZABO SCANDIC

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## Produktinformation



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Laborgeräte & Service

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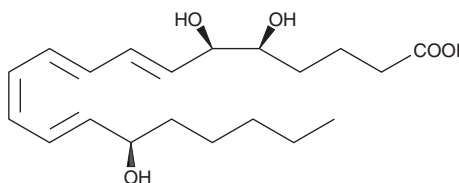
# PRODUCT INFORMATION



## 15(R)-Lipoxin A<sub>4</sub>

Item No. 90415

**CAS Registry No.:** 171030-11-8  
**Formal Name:** 5(S),6(R),15(R)-trihydroxy-7E,9E,11Z,13E-eicosatetraenoic acid  
**Synonyms:** AT-Lipoxin A<sub>4</sub>, 15-*epi* Lipoxin A<sub>4</sub>, 15(R)-LXA<sub>4</sub>  
**MF:** C<sub>20</sub>H<sub>32</sub>O<sub>5</sub>  
**FW:** 352.5  
**Purity:** ≥95%  
**Stability:** ≥1 year at -80°C  
**Supplied as:** A solution in ethanol  
**Special Conditions:** Light Sensitive  
**UV/Vis.:** λ<sub>max</sub>: 302 nm



### Laboratory Procedures

For long term storage, we suggest that 15(R)-lipoxin A<sub>4</sub> (15(R)-LXA<sub>4</sub>) be stored as supplied at -80°C. It should be stable for at least one year.

15(R)-LXA<sub>4</sub> 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. It is recommended that this product be stored and handled in an ethanol solution. Lipoxins can isomerize and degrade when put into freeze thaw conditions and/or in solvents such as DMF or DMSO. If diluted with an aqueous buffer, this product should be discarded immediately after use.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of 15(R)-LXA<sub>4</sub> is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 15(R)-LXA<sub>4</sub> in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Lipid-derived lipoxins are produced at the site of vascular and mucosal inflammation where they down-regulate polymorphonuclear leukocyte recruitment and function. 15(R)-LXA<sub>4</sub> is derived from the aspirin-triggered formation of 15(R)-HETE (Item No. 34710) from arachidonic acid (Item No. 90010).<sup>1,2</sup> 15(R)-LXA<sub>4</sub> inhibits LTB<sub>4</sub>-induced chemotaxis, adherence, and transmigration of neutrophils with twice the potency of LXA<sub>4</sub> (Item No. 90410) demonstrating activity in the nM range.<sup>1,3</sup> The anti-inflammatory effects of aspirin may be ascribed in part to the ability of 15(R)-LXA<sub>4</sub> to regulate leukocyte function.<sup>4</sup> 15(R)-LXA<sub>4</sub> is reported to promote resolution of inflammation in LPS-treated stromal cells derived from intermediate-stage diseased supraspinatus tendons as evidenced by increased expression of the STAT-6 pathway target genes, ALOX15 and CD206.<sup>5</sup>

### References

1. Clària, J., Lee, M.H., and Serhan, C.N. *Mol. Med.* **2**, 583-596 (1996).
2. Clària, J. and Serhan, C.N. *Proc. Natl. Acad. Sci. USA* **92**, 9475-9479 (1995).
3. Fierro, I.M., Colgan, S.P., Bernasconi, G., et al. *J. Immunol.* **170**, 2688-2694 (2003).
4. Chiang, N., Bermudez, E.A., Ridker, P.M., et al. *Proc. Natl. Acad. Sci. USA* **101(42)**, 15178-15183 (2004).
5. Dakin, S.G., Martinez, F.O., Yapp, C., et al. *Sci. Transl. Med.* **7(311)**, (2015).

#### 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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