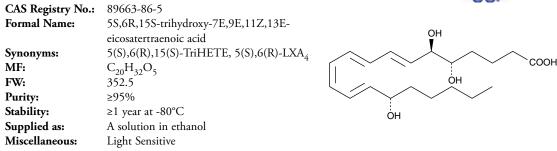
# Product Information



# 5(S),6(R)-Lipoxin A<sub>4</sub> Lipid Maps MS Standard

Item No. 10007271





### Laboratory Procedures

For long term storage, we suggest that 5(S),6(R)-lipoxin  $A_4$  (5(S),6(R)-LXA<sub>4</sub>) be stored as supplied at -80°C. It should be stable for at least one year.

5(S),6(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. Solvents such as DMSO and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of 5(S),6(R)-LXA4 in these solvents is at least 50 mg/ml. We strongly recommended that solvent changes occur immediately before use, as 5(S),6(R)-LXA4 will degrade over time in DMSO and DMF.

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 5(S),6(R)-LXA4 is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 5(S),6(R)-LXA4 in PBS (pH 7.2) is at least 1 mg/ml. Store aqueous solutions of 5(S),6(R)-LXA4 on ice and use within 12 hours of preparation. Although the aqueous solutions of 5(S),6(R)-LXA4 may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

5(S),6(R)-LXA4 is a trihydroxy fatty acid containing a conjugated tetraene, produced by the metabolism of 15-HETE or 15-HpETE with human leukocytes.<sup>1</sup> 5(S),6(R)-LXA<sub>4</sub> is equipotent to leukotriene B<sub>4</sub> (LTB<sub>4</sub>) in inducing superoxide generation in human neutrophils at 0.1  $\mu$ M.<sup>2</sup> 5(S),6(R)-LXA<sub>4</sub> is associated with several other biological functions including leukocyte activation, chemotaxis effects, natural killer cell inhibition, and monocyte migration and adhesion.<sup>2-4</sup>

## References

- 1. Serhan, C.N., Nicolaou, K.C., Webber, S.E., et al. Lipoxin A. Stereochemistry and biosynthesis. J. Biol. Chem. 261, 16340-16345 (1986).
- 2. Serhan, C.N., Hamberg, M., Samuelsson, B. Lipoxins: Novel series of biologically active compounds formed from arachidonic acid in human leukocytes. Proc. Natl. Acad. Sci. USA 81, 5335-5339 (1984).
- Ramstedt, U., Serhan, C.N., Nicolaou, K.C., et al. Lipoxin A-induced inhibition of human natural killer cell 3. cytotoxicity: Studies on stereospecificity of inhibition and mode of action. J. Immunol. 138, 266-270 (1987).
- Maddox, J.F. and Serhan, C.N. Lipoxin  $A_4$  and  $B_4$  are potent stimuli for human monocyte migration and adhesion: 4. Selective inactivation by dehydrogenation and reduction. J. Exp. Med. 183, 137-146 (1996).

#### **Related Products**

For a list of related products please visit: www.caymanchem.com/catalog/10007271

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

#### MATERIAL 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 Material Safety Data Sheet, which has been sent via email to your institution

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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. Copyright Cayman Chemical Company, 11/29/2012

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