

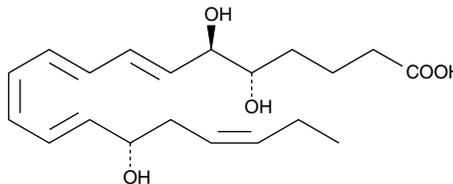
# Product Information



## Lipoxin A<sub>5</sub>

Item No. 10011453

**CAS Registry No.:** 110657-98-2  
**Formal Name:** 5S,6R,15S-trihydroxy-7E,9E,11Z,13E,17Z-eicosapentaenoic acid  
**Synonym:** LXA<sub>5</sub>  
**MF:** C<sub>20</sub>H<sub>30</sub>O<sub>5</sub>  
**FW:** 350.5  
**Purity:** ≥95%  
**Stability:** ≥1 year at -80°C  
**Supplied as:** A solution in ethanol  
**UV/Vis.:** λ<sub>max</sub>: 302 nm  
**Miscellaneous:** Light Sensitive



### Laboratory Procedures

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

LXA<sub>5</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 LXA<sub>5</sub> is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of LXA<sub>5</sub> in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

LXA<sub>5</sub> is produced by enzymatic transformation of EPA by leukocytes.<sup>1</sup> LXA<sub>5</sub> slowly contracts pulmonary parenchymal strips from guinea pig with similar potency to that of LXA<sub>4</sub> and LXB<sub>4</sub>.<sup>2</sup> However, LXA<sub>5</sub> does not exert the vasodilatory effects on aortic smooth muscle exhibited by LXA<sub>4</sub> and LXB<sub>4</sub>.<sup>2</sup>

### References

1. Wong, P.Y.K., Hughes, R., and Lam, B. Lipoxene: A new group of trihydroxy pentaenes of eicosapentaenoic acid derived from porcine leukocytes. *Biochem. Biophys. Res. Commun.* **126**(2), 763-772 (1985).
2. Stahl, G.L., Tsao, P., Lefler, A.M., *et al.* Pharmacologic profile of lipoxins A<sub>5</sub> and B<sub>5</sub>: new biologically active eicosanoids. *Eur. J. Pharmacol.* **163**, 55-60 (1989).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/10011453](http://www.caymanchem.com/catalog/10011453)

**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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