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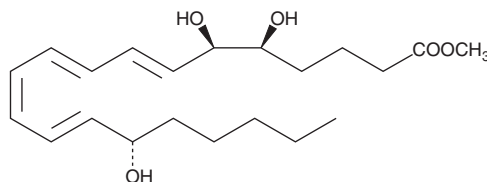
PRODUCT INFORMATION



Lipoxin A₄ methyl ester

Item No. 10033

CAS Registry No.: 97643-35-1
Formal Name: 5S,6R,15S-trihydroxy-7E,9E,11Z,13E-eicosatetraenoic acid, methyl ester
Synonyms: LX_{A4} methyl ester, 5(S),6(R),15(S)-TriHETE methyl ester
MF: C₂₁H₃₄O₅
FW: 366.5
Purity: ≥95%
Stability: ≥1 year at -80°C
Supplied as: A solution in ethanol
UV/Vis.: λ_{max}: 302 nm ε: 50,000
Miscellaneous: Light Sensitive



Laboratory Procedures

For long term storage, we suggest that lipoxin A₄ methyl ester (LXA₄ methyl ester) be stored as supplied at -80°C. It should be stable for at least one year.

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

Description

LXA₄ methyl ester is a more lipid soluble, prodrug formulation of the transcellular metabolite LX_{A4}. LX_{A4} is a trihydroxy fatty acid containing a conjugated tetraene, produced by the metabolism of 15-HETE or 15-HpETE with human leukocytes.¹ LX_{A4} is equipotent to leukotriene B₄ in inducing superoxide generation in human neutrophils at 0.1 μM.² LX_{A4} is associated with several other biological functions including leukocyte activation, chemotaxis effects, natural killer cell inhibition, and monocyte migration and adhesion.²⁻⁴

References

1. Serhan, C.N., Nicolaou, K.C., Webber, S.E., *et al.* *J. Biol. Chem.* **261**, 16340-16345 (1986).
2. Serhan, C.N., Hamberg, M., Samuelsson, B. *Proc. Natl. Acad. Sci. USA* **81**, 5335-5339 (1984).
3. Ramstedt, U., Serhan, C.N., Nicolaou, K.C., *et al.* *J. Immunol.* **138**, 266-270 (1987).
4. Maddox, J.F. and Serhan, C.N. *J. Exp. Med.* **183**, 137-146 (1996).

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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