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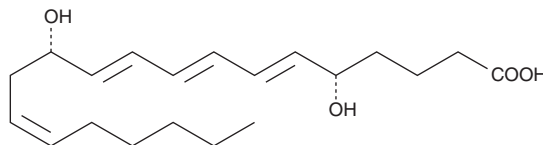
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PRODUCT INFORMATION



6-*trans*-12-*epi* Leukotriene B₄ Item No. 35265

CAS Registry No.: 71548-19-1
Formal Name: 5S,12S-dihydroxy-6E,8E,10E,14Z-eicosatetraenoic acid
Synonym: 6-*trans*-12-*epi* LTB₄
MF: C₂₀H₃₂O₄
FW: 336.5
Purity: ≥97%
UV/Vis.: λ_{max}: 268 nm ε: 50,000 nm
Supplied as: A solution in ethanol
Storage: -20°C
Stability: As supplied, 1 year from the QC date provided on the Certificate of Analysis, when stored properly
Special Conditions: Light sensitive



Laboratory Procedures

6-*trans*-12-*epi* Leukotriene B₄ (6-*trans*-12-*epi* LTB₄) 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 purged with an inert gas can be used. The solubility of 6-*trans*-12-*epi* LTB₄ in these solvents is approximately 50 mg/ml.

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 6-*trans*-12-*epi* LTB₄ is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 6-*trans*-12-*epi* LTB₄ in PBS (pH 7.2) is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

6-*trans*-12-*epi* LTB₄ is a non-enzymatic hydrolysis product of LTA₄. It was originally isolated from glycogen-induced rabbit peritoneal polymorphonuclear leukocytes (PMNL).^{1,2} 6-*trans*-12-*epi* LTB₄ is weakly chemotactic for PMNL, with approximately 20 times less potency than LTB₄, and has no effect on the aggregation response.³

References

1. Borgeat, P. and Samuelsson, B. Metabolism of arachidonic acid in polymorphonuclear leukocytes. *J. Biol. Chem.* **254**, 7865-7869 (1979).
2. Borgeat, P. and Samuelsson, B. Arachidonic acid metabolism in polymorphonuclear leukocytes: Unstable intermediate in formation of dihydroxy acids. *Proc. Natl. Acad. Sci. USA* **76**, 3213-3217 (1979).
3. Lee, T.H., Mencia-Huerta, J.M., Shih, C., *et al.* Characterization and biologic properties of 5,12-dihydroxy derivatives of eicosapentaenoic acid, including leukotriene B₅ and the double lipoxygenase product. *J. Biol. Chem.* **259**, 2383-2389 (1984).

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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