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- Mindermengenzuschlag
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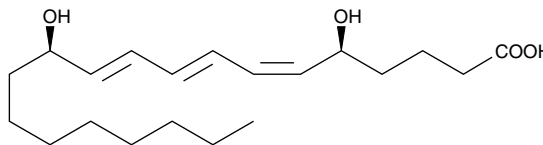
Product Information



Leukotriene B₃

Item No. 20109

CAS Registry No.: 88099-35-8
Formal Name: 5S,12R-dihydroxy-6Z,8E,10E-eicosatrienoic acid
MF: C₂₀H₃₄O₄
FW: 338.5
Purity: ≥97%*
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol
UV/Vis.: λ_{max}: 270 nm ε: 50,000
Miscellaneous: Light Sensitive



Laboratory Procedures

For long term storage, we suggest that LTB₃ be stored as supplied at -20°C. It should be stable for at least one year.

LTB₃ 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 or dimethyl formamide purged with an inert gas can be used. LTB₃ is miscible in these solvents.

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 LTB₃ is needed, it can be prepared by evaporating the ethanol under a stream of nitrogen and dissolving the neat oil in the buffer of choice. LTB₃ is soluble in PBS (pH 7.2) at a concentration of at least 1 mg/ml. For more concentrated aqueous solutions, use basic buffers (pH >8.0 and ionic strength ≥0.1 M). We do not recommend storing the aqueous solution for more than one day.

LTB₃ is the LTA hydrolase metabolite of LTA₃ in the leukotriene biosynthetic pathway. LTB₃ and LTB₄ are equipotent in their pro-inflammatory effects.^{1,2} However, LTB₃ is five times less potent than LTB₄ in eliciting chemotaxis of human neutrophils.¹

References

1. Lee, T.H., Sethi, T., Crea, A.E.G., *et al.* Characterization of leukotriene B₃: Comparison of its biological activities with leukotriene B₄ and leukotriene B₅ in complement receptor enhancement, lysozyme release and chemotaxis of human neutrophils. *Clin. Sci.* **74**, 467-475 (1988).
2. Shimazaki, T., Kobayashi, Y., Sato, F., *et al.* Some newly synthesized leukotriene B₄ analogs inhibit LTB₄-induced lysozyme release from rat polymorphonuclear leukocytes. *Prostaglandins* **39**, 459-467 (1990).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/20109

*All cysteinyl leukotrienes may contain a small amount of the 11-*trans* isomer. The purity for all such leukotrienes excludes the 1-4% *trans* isomer which may be present.

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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