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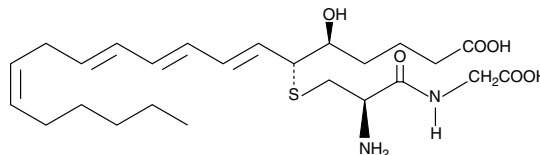
Product Information



11-*trans* Leukotriene D₄

Item No. 20330

CAS Registry No.: 79768-40-4
Formal Name: 5S-hydroxy-6R-(S-cysteinylglycyl)-7E,9E,11E,14Z-eicosatetraenoic acid
MF: C₂₅H₄₀N₂O₆S
FW: 496.7
Purity: ≥97%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol
UV/Vis.: λ_{max}: 278 nm ε:40,000
Miscellaneous: Light Sensitive



Laboratory Procedures

For long term storage, we suggest that 11-*trans* leukotriene D₄ (11-*trans* LTD₄) be stored as supplied at -20°C. It should be stable for at least 1 year.

11-*trans* LTD₄ 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 11-*trans* LTD₄ 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 11-*trans* LTD₄ is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 11-*trans* LTD₄ in PBS (pH 7.2) is approximately 100 µg/ml. Store aqueous solutions of 11-*trans* LTD₄ on ice and use within 12 hours of preparation. Although the aqueous solutions of 11-*trans* LTD₄ may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

11-*trans* LTD₄ is a C-11 double bond isomer of LTD₄. LTD₄ undergoes slow temperature-dependent isomerization to 11-*trans* LTD₄ during storage. 11-*trans* LTD₄ retains about 10-25% of the potency for contraction of guinea pig ileum, trachea, and parenchyma compared to LTD₄.^{1,2} It exhibits an ED₅₀ ranging between 12-60 nM for contraction of guinea pig trachea.^{2,3}

References

1. Baker, S.R., Boot, J.R., Jamieson, W.B., *et al.* The comparative *in vitro* pharmacology of leukotriene D₄ and its isomers. *Biochem. Biophys. Res. Commun.* **103(4)**, 1258-1264 (1981).
2. Tsai, B.S., Bernstein, P., Macia, R.A., *et al.* Comparative potency and pharmacology of isomers of leukotriene D₄ on guinea-pig trachea: Requirement for a 5(S)6(R) configuration. *Prostaglandins* **23(4)**, 489-506 (1982).
3. Krell, R.D., Osborn, R., Falcone, K., *et al.* Contraction of isolated airway smooth muscle by synthetic leukotrienes C₄ and D₄. *Prostaglandins* **22(3)**, 387-409 (1981).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/20330

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

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