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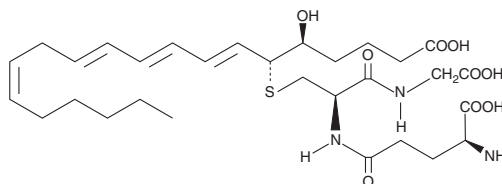
PRODUCT INFORMATION



11-*trans* Leukotriene C₄

Item No. 20230

CAS Registry No.: 74841-69-3
Formal Name: 5S-hydroxy-6R-(S-glutathionyl)-7E,9E,11E,14Z-eicosatetraenoic acid
Synonym: 11-*trans* LTC₄
MF: C₃₀H₄₇N₃O₉S
FW: 625.8
Purity: ≥97%
UV/Vis.: λ_{max}: 280 nm ε: 40,000
Supplied as: A solution in ethanol
Storage: -20°C
Stability: 1 year
Special Conditions: Light sensitive



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

11-*trans* LTC₄ 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* LTC₄ 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* LTC₄ is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 11-*trans* LTC₄ in PBS (pH 7.2) is approximately 100 µg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

11-*trans* LTC₄ is a C-11 double bond isomer of LTC₄. LTC₄ undergoes slow temperature-dependent isomerization to 11-*trans* LTC₄ during storage. 11-*trans* LTC₄ is produced in smaller amounts relative to LTC₄ in ionophore-stimulated HMC-1 cells (a human mast cell line) and equine eosinophils¹, but not in human neutrophils or RBL-1 cells.² It is nearly equipotent with LTC₄ for contraction of guinea pig parenchymal and ileum.^{3,4} In a radioligand binding assay using guinea pig ileum as a cysteinyl leukotriene receptor preparation, the pK_is for LTC₄ and 11-*trans* LTC₄ were determined to be 6.42 and 6.58, respectively.⁴

References

1. Jörg, A., Henderson, W.R., Murphy, R.C., *et al.* Leukotriene generation by eosinophils. *J. Exp. Med.* **155**(2), 390-402 (1982).
2. Macchia, L., Hamberg, M., Kumlin, M., *et al.* Arachidonic acid metabolism in the human mast cell line HMC-1: 5-lipoxygenase gene expression and biosynthesis of thromboxane. *Biochimica et Biophysica Acta* **1257**(1), 58-74 (1995).
3. Dahlén, S.E., Hedqvist, P., and Hammarström, S. Contractile activities of several cysteine-containing leukotrienes in the guinea-pig lung strip. *Eur. J. Pharmacol.* **86**(2), 207-215 (1983).
4. Sala, A., Civelli, M., Oliva, D., *et al.* Contractile and binding activities of structural analogues of LTC₄ in the longitudinal muscle of guinea-pig ileum. *Eicosanoids* **3**(2), 105-110 (1990).

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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