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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Product Information



Cysteinyl Leukotriene HPLC Mixture I

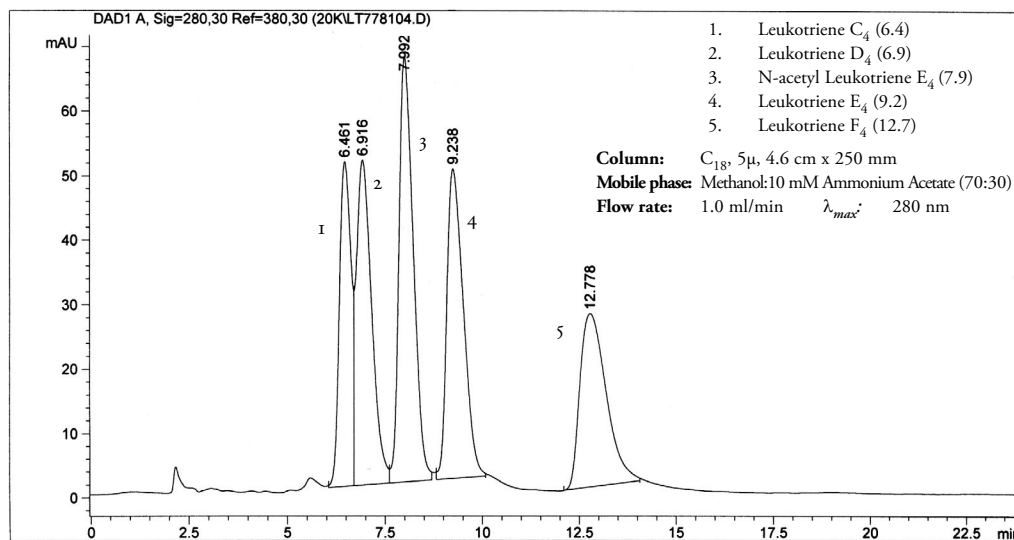
Item No. 20001

Purity: ≥98% for each compound
Stability: ≥6 months at -80°C
Supplied as: A solution in ethanol (5 µg of each compound)
Miscellaneous: Light Sensitive

Laboratory Procedures

The Cysteinyl Leukotriene HPLC Mixture I (CysLT HPLC mixture I) is supplied as a solution in ethanol. We suggest that it be stored as supplied at -80°C. It should be stable for at least six months.

This HPLC mixture contains 5 µg of five of the most commonly encountered CysLTs. The leukotrienes are 5-lipoxygenase metabolites most commonly associated with asthma, where they are one of the causative agents in anaphylaxis and bronchoconstriction.¹⁻⁴ This product contains the primary CysLT, LTC₄, produced by the addition of glutathione to LTA₄ by the MAPEG-group enzyme LTC₄ synthase.⁵ It also contains each of the sequential leukotriene metabolites, LTD₄, LTE₄, LTF₄, and N-acetyl-LTE₄. These metabolites span a very wide polarity range and separate well on reversed phase HPLC.



References

- Dahlén, S.-E., Hansson, G., Hedqvist, P., *et al.* Allergen challenge of lung tissue from asthmatics elicits bronchial contraction that correlates with the release of leukotrienes C₄, D₄, and E₄. *Proc. Natl. Acad. Sci. USA* **80**, 1712-1716 (1983).
- Levin, R.I., Jaffe, E.A., Weksler, B.B., *et al.* Nitroglycerin stimulates synthesis of prostacyclin by cultured human endothelial cells. *J. Clin. Invest.* **67**, 762-769 (1981).
- Murphy, R.C., Hammarström, S., and Samuelsson, B. Leukotriene C: A slow-reacting substance from murine mastocytoma cells. *Proc. Natl. Acad. Sci. USA* **76**, 4275-4279 (1979).
- Samuelsson, B., Dahlén, S.-E., Lindgren, J.Å., *et al.* Leukotrienes and lipoxins: Structures, biosynthesis, and biological effects. *Science* **237**, 1171-1176 (1987).
- Penrose, J.F. LTC₄ synthase. Enzymology, biochemistry, and molecular characterization. *Clinical Reviews in Allergy and Immunology* **17**, 133-152 (1999).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/20001

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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