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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

Lipoxin LC-MS Mixture

Item No. 19412

Supplied as: A solution in ethanol (100 ng/ml of each compound)
Storage: -80°C
Stability: ≥5 years

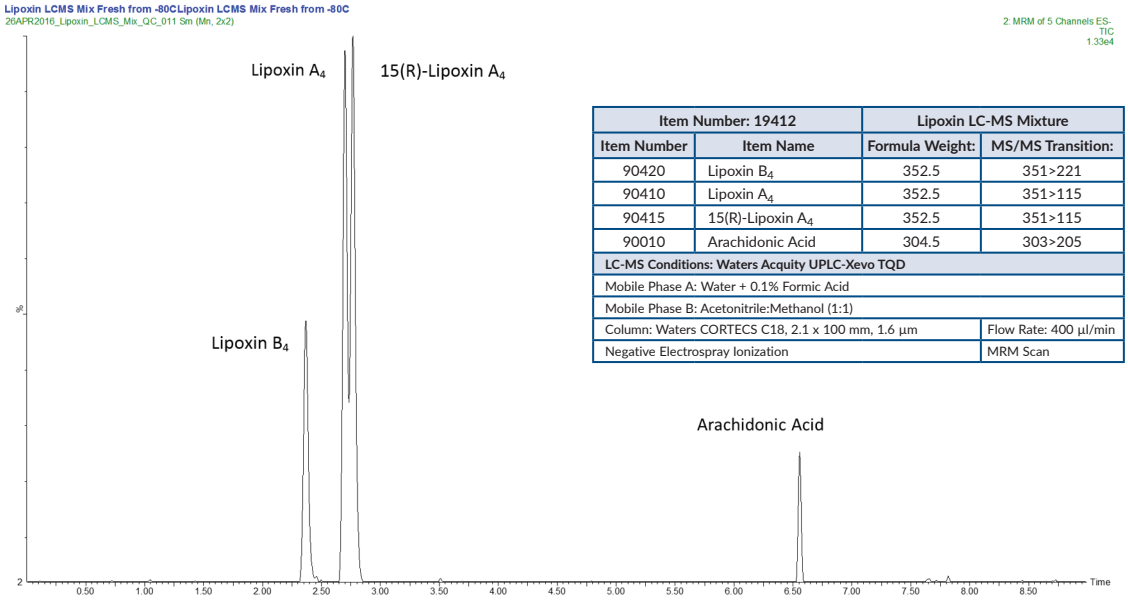
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

This mixture contains several lipoxins and their precursor, arachidonic acid (Item No. 90010). The mixture is supplied in an amber ampule in which the headspace has been purged with argon to prevent lipid oxidation. This product has been designed for direct use in LC-MS applications. The solution may be serially diluted for preparation of calibrators and QC standards and/or used directly as a system suitability standard or tuning standard. After opening, we recommend that the mixture be transferred immediately to a 1 ml glass screw cap vial, to prevent solvent evaporation, and stored at -80°C. The mixture should be discarded after multiple freeze/thaw cycles.

The fatty acids in this mixture represent the metabolic cascade of the lipoxins, a family of lipid mediators that are generated at the site of vascular and mucosal inflammation where they down-regulate polymorphonuclear leukocyte recruitment and function.[1-3] Lipoxins are produced by human leukocytes *via* the oxygenation of arachidonic acid by either 15- or 5-lipoxygenase, which forms 15-HETE or 5-HETE intermediates before subsequent metabolism to lipoxin A_4 (Item No. 90410) and B_4 (Item No. 90420).[1,5,6] 15(R)-Lipoxin A_4 (Item No. 90415) is derived from the aspirin-triggered formation of 15(R)-HETE (Item No. 34710) from arachidonic acid.[7,8]

Contents



Item Number: 19412		Lipoxin LC-MS Mixture	
Item Number	**Item Name**	**Formula Weight:**	**MS/MS Transition:**
90420	Lipoxin B_4	352.5	351>221
90410	Lipoxin A_4	352.5	351>115
90415	15(R)-Lipoxin A_4	352.5	351>115
90010	Arachidonic Acid	304.5	303>205
LC-MS Conditions: Waters Acquity UPLC-Xevo TQD			
Mobile Phase A: Water + 0.1% Formic Acid			
Mobile Phase B: Acetonitrile:Methanol (1:1)			
Column: Waters CORTECS C18, 2.1 x 100 mm, 1.6 µm			Flow Rate: 400 µl/min
Negative Electrospray Ionization			MRM Scan

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.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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PRODUCT INFORMATION

References

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5. Serhan, C.N., Nicolaou, K.C., Webber, S.E., *et al*. Lipoxin A. Stereochemistry and biosynthesis. *J. Biol. Chem.* **261**, 16340-16345 (1986).
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