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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Lipoxin A₄-d₅ Item No. 10007737

CAS Registry No.: 1622429-53-1
Formal Name: 5S,6R,15S-trihydroxyicosa-7E,9E,11Z,13E-tetraenoic-19,19,20,20,20-d₅ acid

Synonyms: LXA₄-d₅, 5(S),6(R),15(S)-TriHETE-d₅

MF: C₂₀H₂₇D₅O₅

FW: 357.5

Chemical Purity: ≥95% Lipoxin A₄

Deuterium

Incorporation: ≥99% deuterated forms (d₁-d₅);
≤1% d₀

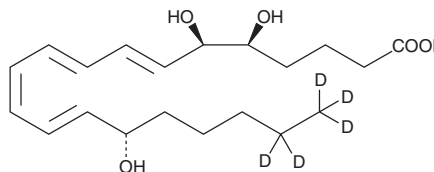
UV/Vis.: λ_{max}: 302 nm ε: 50,000

Supplied as: A solution in ethanol

Storage: -80°C

Stability: As supplied, 1 year from the QC date provided on the Certificate of Analysis, when stored properly

Special Conditions: Light Sensitive



Laboratory Procedures

Lipoxin A₄-d₅ (LXA₄-d₅) contains five deuterium atoms at the 19, 19', 20, 20, and 20 positions. It is intended for use as an internal standard for the quantification of LXA₄ by GC- or LC-mass spectrometry (MS).

LXA₄-d₅ 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. It is recommended that this product be stored and handled in an ethanol solution. Lipoxins can isomerize and degrade when put into freeze thaw conditions and/or in solvents such as DMF or DMSO. If diluted with an aqueous buffer, this product should be discarded immediately after use.

LXA₄-d₅ is used as an internal standard for the quantification of LXA₄ by stable isotope dilution MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Description

LXA₄ is a trihydroxy fatty acid containing a conjugated tetraene, produced by the metabolism of 15-HETE or 15-HpETE with human leukocytes.¹ LXA₄ is equipotent to leukotriene B₄ (LTB₄) in inducing superoxide generation in human neutrophils at 0.1 μM.² LXA₄ is associated with several other biological functions including leukocyte activation, chemotaxis effects, natural killer cell inhibition, and monocyte migration and adhesion.²⁻⁴

References

1. Serhan, C.N., Nicolaou, K.C., Webber, S.E., *et al.* *J. Biol. Chem.* **261**, 16340-16345 (1986).
2. Serhan, C.N., Hamberg, M., and Samuelsson, B. *Proc. Natl. Acad. Sci. USA* **81**, 5335-5339 (1984).
3. Ramstedt, U., Serhan, C.N., Nicolaou, K.C., *et al.* *J. Immunol.* **138**, 266-270 (1987).
4. Maddox, J.F. and Serhan, C.N. *J. Exp. Med.* **183**, 137-146 (1996).

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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