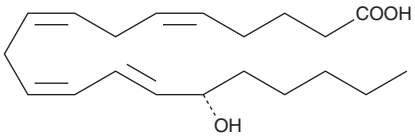
PRODUCT INFORMATION

15(S)-HETE MaxSpec® Standard

Item No. 10007251



CAS Registry No.: 54845-95-3
Formal Name: 15S-hydroxy-5Z,8Z,11Z,13E-eicosatetraenoic acid
MF: $C_{20}H_{32}O_3$
FW: 320.5
Purity: ≥95%
Supplied as: A solution in ethanol; in a deactivated glass ampule
Concentration: 100 µg/ml (nominal); see certificate of analysis for verified concentration
Storage: -20°C
Stability: ≥5 years; *Stability testing is ongoing to ensure concentration accuracy. The certificate of analysis and product expiry date will be updated upon completion of testing.*
Special Conditions: Store upright and unopened at -20°C. Warm to room temperature prior to opening. Light sensitive.

Description

15(S)-HETE is a major arachidonic acid metabolite from the 15-lipoxygenase pathway. In mammals, 15(S)-HETE is synthesized in the respiratory epithelium, leukocytes, and reticulocytes.[1] 15(S)-HETE is present in µg/ml concentrations in the nasal secretions of allergic rhinitis.[2]

15(S)-HETE MaxSpec® standard is a quantitative grade standard of 15(S)-HETE (Item No. 34720) that has been prepared specifically for mass spectrometry or any application where quantitative reproducibility is required. The solution has been prepared gravimetrically and is supplied in a deactivated glass ampule sealed under argon. The concentration was verified by comparison to an independently prepared calibration standard. This 15(S)-HETE MaxSpec® standard is guaranteed to meet identity, purity, stability, and concentration specifications and is provided with a batch-specific certificate of analysis. Ongoing stability testing is performed to ensure the concentration remains accurate throughout the shelf life of the product. ***Note:*** *The amount of solution added to the vial is in excess of the listed amount. Therefore, it is necessary to accurately measure volumes for preparation of calibration standards. Follow recommended storage and handling conditions to maintain product quality.*

References

1. Nadel, J.A., Conrad, D.J., Ueki, I.F., *et al.* Immunocytochemical localization of arachidonate 15-lipoxygenase in erythrocyes, leukocytes, and airway cells. *J. Clin. Invest.* **87(4)**, 1139-1145 (1991).
2. Ramis, I., Roselló-Catafau, J., Bulbena, O., *et al.* 15-Hydroxyeicosatetraenoic acid as a major eicosanoid in nasal secretions: Assay by high-performance liquid chromatographic-radioimmunoassay and gas chromatographic-mass spectrometric procedures. *J. Chromatogr.* **496(2)**, 416-422 (1989).

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