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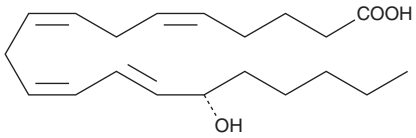
PRODUCT INFORMATION

15(S)-HETE

Item No. 34720

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: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol
UV/Vis: λ_{max}: 236 nm ε: 27,000
Misc: Oxygen and light sensitive



Laboratory Procedures

For long term storage, we suggest that 15(S)-HETE be stored as supplied at -20°C. It should be stable for at least one year.

15(S)-HETE 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 15(S)-HETE in these solvents is miscible.

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 15(S)-HETE is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 15(S)-HETE in PBS, pH 7.2, is approximately 0.8 mg/ml. For greater aqueous solubility, 15(S)-HETE can be directly dissolved in 0.1 M Na_2CO_3 (solubility of 2 mg/ml) and then diluted with PBS (pH 7.2) to achieve the desired concentration or pH. We do not recommend storing the aqueous solution for more than one day.

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]

References

1. 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**, 416-422 (1989).
2. Van Diest, M.J., Verbeuren, T.J., and Herman, A.G. 15-Lipoxygenase metabolites of arachidonic acid evoke contractions and relaxations in isolated canine arteries: Role of thromboxane receptors, endothelial cells and cyclooxygenase. *J. Pharmacol. Exp. Ther.* **256**, 194-203 (1991).

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