

Product Data Sheet

Product Name: 11(S)-HETE

Cat. No.: GC40446

Chemical Properties

Cas. No. 54886-50-9

SMILES CCCCC/C=C\C=C/[C@@H](O)C/C=C\C/C=C\C\CCCC(=O)O

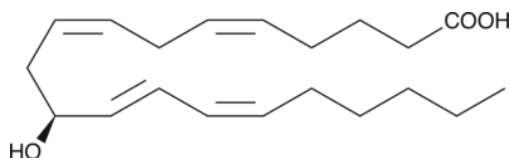
Formula C₂₀H₃₂O₃ M.Wt 320.5

Solubility 0.1 M Na₂CO₃: 2 mg/ml, DMF: Storage Store at -20°C
Miscible, DMSO: Miscible, Ethanol:
Miscible, PBS pH 7.2: 0.8 mg/ml

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the
tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or
Condition blue ice upon request.

Structure



Background

11(S)-HETE is an oxylipin and the (S) enantiomer of 11(R)-HETE. It is formed non-enzymatically from arachidonic acid.[1] Levels of 11(S)-HETE are higher than those of 11(R)-HETE in isolated human plasma and serum and in LPS-stimulated isolated human plasma. Serum levels of 11(S)-HETE decrease in patients with allergic rhinitis after one year of double-mite subcutaneous immunotherapy (DM-SCIT) and are associated with an improved quality of life in regards to rhinoconjunctivitis.[2]

References:

1. Mazaleuskaya, L.L., Salamatipour, A., Saratopoulou, D., et al. Analysis of HETEs in human whole blood by chiral UHPLC-ECAPCI/HRMS. J. Lipid Res. 59(3), 564-575 (2018).
2. Zheng, P., Yan, G., Zhang, Y., et al. Metabolomics reveals process of allergic rhinitis patients with single- and double-species mite subcutaneous immunotherapy. Metabolites 11(9), 613 (2021).

Caution: Product has not been fully validated for medical applications. For research use only.

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