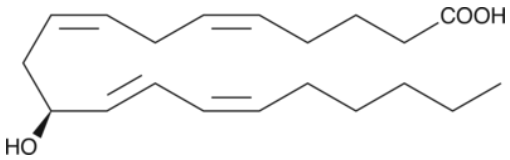
Product Data Sheet

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\CCCC(=O)O		
Formula	C20H32O3	M.Wt	320.5
Solubility	0.1 M Na2CO3: 2 mg/ml,DMF: Miscible,DMSO: Miscible,Ethanol: Miscible,PBS pH 7.2: 0.8 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or 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 labels 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.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet