



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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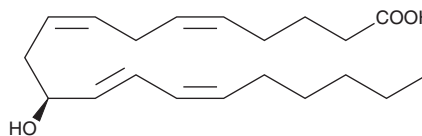
# PRODUCT INFORMATION



## 11(S)-HETE

Item No. 34510

**CAS Registry No.:** 54886-50-9  
**Formal Name:** 11S-hydroxy-5Z,8Z,12E,14Z-eicosatetraenoic acid  
**Synonym:** 11S-Hydroxyeicosatetraenoic Acid  
**MF:** C<sub>20</sub>H<sub>32</sub>O<sub>3</sub>  
**FW:** 320.5  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 236 nm ε: 27,000  
**Supplied as:** A solution in ethanol  
**Storage:** -20°C  
**Stability:** ≥1 year



**Special Conditions:** Oxygen and light sensitive

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

11(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. 11(S)-HETE is miscible in these solvents.

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 11(S)-HETE is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 11(S)-HETE in PBS (pH 7.2) is approximately 0.8 mg/ml. For greater aqueous solubility, 11(S)-HETE can be directly dissolved in 0.1 M sodium carbonate (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

11(S)-HETE is an oxylipin and the (S) enantiomer of 11(R)-HETE (Item No. 34505). It is formed non-enzymatically from arachidonic acid (Item Nos. 90010 | 90010.1 | 10006607).<sup>1</sup> 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.<sup>2</sup>

### References

1. Mazaleuskaya, L.L., Salamati-pour, 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).

#### 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.

#### WARRANTY AND LIMITATION OF REMEDY

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