

# PRODUCT INFORMATION

## 9(S)-HEPE

Item No. 32410

CAS Registry No.: 141545-44-0

Formal Name: 9S-hydroxy-5Z,7E,11Z,14Z,17Z-eicosapentaenoic acid

MF: C<sub>20</sub>H<sub>30</sub>O<sub>3</sub>

FW: 318.5

Purity: ≥98%

UV/Vis.: λ<sub>max</sub>: 235 nm

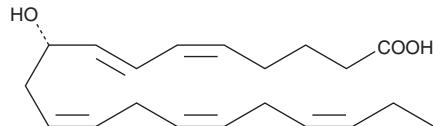
Supplied as: A 100 µg/ml solution in ethanol

Storage: -20°C

Stability: ≥2 years

Special Conditions: Oxygen and light sensitive

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



### Laboratory Procedures

9(S)-HEPE 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. 9(S)-HEPE 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 9(S)-HEPE is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 9(S)-HEPE in PBS, pH 7.2 is approximately 0.8 mg/ml. For greater aqueous solubility, 9(S)-HEPE can be directly dissolved in 0.1 M Na<sub>2</sub>CO<sub>3</sub> (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

9(S)-HEPE is a metabolite of eicosapentaenoic acid (EPA; Item Nos. 90110 | 90110.1 | 21908).<sup>1</sup> It is formed from EPA by 9-lipoxygenase (9-LO).

### Reference

1. Kim, M.-J., Lee, J., Kim, S.-E., et al. Production of C20 9S- and C22 11S-hydroxy fatty acids by cells expressing *Shewanella hanedai* arachidonate 9S-lipoxygenase. *Appl. Microbiol. Biotechnol.* **107**(1), 247-260 (2023).

#### 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.

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