



# 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

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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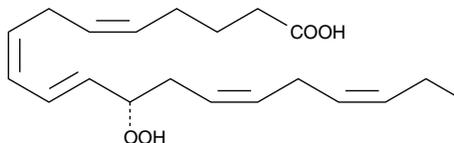
# Product Information



## 12(S)-HpEPE

Item No. 42550

**CAS Registry No.:** 103239-14-1  
**Formal Name:** 12(S)-hydroperoxy-5Z,8Z,10E,14Z,17Z-  
eicosapentaenoic acid  
**MF:** C<sub>20</sub>H<sub>30</sub>O<sub>4</sub>  
**FW:** 334.5  
**Purity:** ≥96%  
**Stability:** ≥6 months at -80°C  
**Supplied as:** A solution in ethanol  
**UV/Vis:** λ<sub>max</sub>: 237 nm ε: 23,000



### Laboratory Procedures

For long term storage, we suggest that 12(S)-HpEPE be stored as supplied at -80°C. It should be stable for at least six months.

12(S)-HpEPE 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. 12(S)-HpEPE 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 12(S)-HpEPE is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 12(S)-HpEPE in PBS (pH 7.2) is approximately 0.8 mg/ml. For greater aqueous solubility, 12(S)-HpEPE 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. Store aqueous solutions on ice and use within 12 hours of preparation.

12(S)-HpEPE is a monohydroperoxy polyunsaturated fatty acid produced by the action of 12-lipoxygenase on eicosapentaenoic acid. Although the biological activities of 12(S)-HpEPE have not been well characterized, it is expected to behave similarly to 12(S)-HpETE (Catalog No. 44570).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/42550](http://www.caymanchem.com/catalog/42550)

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY. NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

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This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

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