

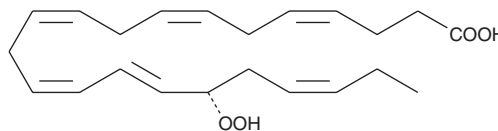
Product Information



17(S)-HpDoHE

Catalog No. 13185

Formal Name:	17S-hydroperoxy-4E,7Z,10Z,13Z,15Z,19Z-docosahexaenoic acid
Synonym:	17(S)-hydroperoxy Docosahexaenoic Acid
MF:	C ₂₂ H ₃₂ O ₄
FW:	360.5
Purity:	≥98%
Stability:	≥6 months at -80°C
Supplied as:	A solution in ethanol
UV/Vis.:	λ _{max} : 237 nm ε: 10,000



Laboratory Procedures

For long term storage, we suggest that 17(S)-HpDoHE be stored as supplied at -80°C. It will be stable for at least six months.

17(S)-HpDoHE 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. 17(S)-HpDoHE 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 17(S)-HpDoHE is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 17(S)-HpDoHE in PBS (pH 7.2) is at least 0.8 mg/ml. 17(S)-HpDoHE is highly unstable in aqueous solutions. We recommend that aqueous solutions of 17(S)-HpDoHE be kept on ice and used as soon as possible, preferably within 15 minutes.

17(S)-HpDoHE is a mono-oxygenation product of docosahexaenoic acid in human whole blood, human leukocytes, human glial cells, and murine brain.¹ 17(S)-HpDoHE is generally reduced to 17(S)-HDoHE (Catalog No. 10009799), a compound that serves as a precursor to 17(S)-resolvins. 17(S)-HDoHE has been shown to inhibit TNF-α-induced interleukin-1β expression in human glioma cells and inhibit TNF-α-induced leukocyte trafficking to the murine air pouch.¹

Reference

1. Hong, S., Gronert, K., Devchand, P.R., *et al.* Novel docosatrienes and 17(S)-resolvins generated from docosahexaenoic acid in murine brain, human blood, and glial cells. Autacoids in anti-inflammation. *J. Biol. Chem.* **278**(17), 14677-14687 (2003).

Related Products

(±)17-HDoHE - Cat. No. 33650 • 17(R)-HDoHE - Cat. No. 10005099 • 17(S)-HDoHE - Cat. No. 10009799

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.

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Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery.**

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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