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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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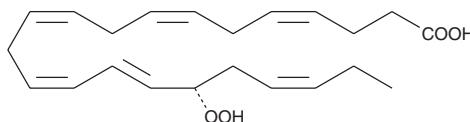
PRODUCT INFORMATION



17(S)-HpDHA

Item No. 13185

CAS Registry No.: 123673-33-6
Formal Name: 17S-hydroperoxy-4E,7Z,10Z,13Z,15Z,19Z-docosahexaenoic acid
Synonyms: 17(S)-hydroperoxy Docosahexaenoic Acid, 17(S)-HpDoHE
MF: C₂₂H₃₂O₄
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)-HpDHA be stored as supplied at -80°C. It will be stable for at least six months.

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

Description

17(S)-HpDHA is a mono-oxygenation product of docosahexaenoic acid in human whole blood, human leukocytes, human glial cells, and mouse brain.¹ 17(S)-HpDHA is generally reduced to 17(S)-HDHA (Item No. 10009799), a compound that serves as a precursor to 17(S)-resolvins. 17(S)-HDHA 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).

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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