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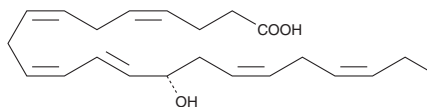
PRODUCT INFORMATION



14(S)-HDHA

Item No. 15253

CAS Registry No.: 119433-37-3
Formal Name: 14S-hydroxy-4Z,7Z,10Z,12E,16Z,19Z-docosahexaenoic acid
Synonyms: 14(S)-hydroxy Docosahexaenoic Acid, 14(S)-HDoHE
MF: C₂₂H₃₂O₃
FW: 344.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol
UV/Vis.: λ_{max}: 236 nm



Laboratory Procedures

For long term storage, we suggest that 14(S)-HDHA be stored as supplied at -20°C. It should be stable for at least one year.

14(S)-HDHA 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. 14(S)-HDHA is miscible in ethanol, DMSO, and dimethyl formamide.

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 14(S)-HDHA is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 14(S)-HDHA in PBS, pH 7.2, is approximately 0.5 mg/ml. For greater aqueous solubility, 14(S)-HDHA can be directly dissolved in 0.1 M Na₂CO₃ (solubility of 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

14(S)-HDHA is an oxygenation product formed by 12-lipoxygenase (12-LO) or 15-LO processing of docosahexaenoic acid (DHA; Item No. 90310).¹ It is a precursor to the pro-resolving mediator maresin 1 (Item No. 10878) and has been found in peritoneal exudates isolated from a mouse model of zymosan-induced peritonitis.

References

1. Serhan, C.N., Yang, R., Martinod, K., *et al.* Maresins: Novel macrophage mediators with potent antiinflammatory and proresolving actions. *J. Exp. Med.* **206**(1), 15-23 (2009).

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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