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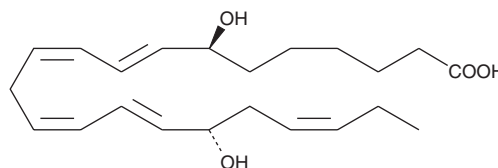
Product Information



7(S),17(S)-dihydroxy-8(E),10(Z),13(Z), 15(E),19(Z)-Docosapentaenoic Acid

Item No. 10546

CAS Registry No.: 887752-13-8
Formal Name: 7S,17S-dihydroxy-8E,10Z,13Z,15E,19Z-docosapentaenoic acid
Synonym: 7(S),17(S)-hydroxy DPA
MF: C₂₂H₃₄O₄
FW: 362.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that 7(S),17(S)-dihydroxy-8(E),10(Z),13(Z),15(E),19(Z)-docosapentaenoic acid (7(S),17(S)-hydroxy DPA) be stored as supplied at -20°C. It should be stable for at least one year.

7(S),17(S)-hydroxy DPA 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. The solubility of 7(S),17(S)-hydroxy DPA in these solvents is approximately 100 mg/ml.

If aqueous stock solutions are required for biological experiments, they can best be prepared by diluting the organic solvent into aqueous buffers or isotonic saline. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Novel oxylipins, referred to as docosanoids, have been derived from C22 polyunsaturated fatty acids. 7(S),17(S)-hydroxy DPA is a DPA-derived analog of the 17(S)-dihydroxy series of docosanoids known as protectins. Protectin D1, a DHA-derived dihydroxy fatty acid, exhibits potent anti-inflammatory activities.¹⁻³ Potentially, 7(S),17(S)-hydroxy DPA demonstrates similar properties; however, its biological activity has yet to be determined.

References

1. Serhan, C.N., Gotlinger, K., Hong, S., *et al.* Anti-inflammatory actions of neuroprotectin D1/protectin D1 and its natural stereoisomers: Assignments of dihydroxy-containing docosatrienes. *J. Immunol.* **176**, 1848-1859 (2006).
2. Ariel, A. and Serhan, C.N. Resolvins and protectins in the termination program of acute inflammation. *Trends Immunol.* **28(4)**, 176-183 (2007).
3. Schwab, J.M., Chiang, N., Arita, M., *et al.* Resolvin E1 and protectin D1 activate inflammation-resolution programmes. *Nature* **447**, 869-875 (2007).

Related Products

Docosapentaenoic Acid - Item No. 90165 • 17-keto-7(Z),10(Z),13(Z),15(E),19(Z)-Docosapentaenoic Acid - Item No. 9000347

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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