PRODUCT INFORMATION



COOH

(±)13(14)-DiHDPA

Item No. 18175

CAS Registry No.: 1345275-24-2 Formal Name: 13,14-dihydroxy-

4Z,7Z,10Z,16Z,19Z-

docosapentaenoic acid

Synonyms: 13(14)-DiHDPA, 13(14)-DiHDoPE,

13,14-DiHDPE

MF: $C_{22}H_{34}O_4$ FW: 362.5 **Purity:** ≥98%

Supplied as: A solution in ethanol

-20°C Storage: Stability: ≥1 year

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



(±)13(14)-DiHDPA 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 ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of (±)13(14)-DiHDPA in these solvents is approximately 50 mg/ml.

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 (±)13(14)-DiHDPA is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of (±)13(14)-DiHDPA in PBS, pH 7.2, is approximately 0.25 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

(±)13(14)-DiHDPA is a metabolite of docosahexaenoic acid (DHA; Item No. 90310) that is produced via oxidation by cytochrome P450 epoxygenases. Epoxygenase metabolites of DHA, including (±)13(14)-DiHDPA, are reported to inhibit angiogenesis, tumor growth, and metastasis.²

References

- 1. VanRollins, M., Baker, R.C., Sprecher, H., et al. Oxidation of docosahexaenoic acid by rat liver microsomes. J. Biol. Chem. 259, 5776-5783 (1984).
- 2. Zhang, G., Panigrahy, D., Mahakian, L.M., et al. Epoxy metabolites of docosahexaenoic acid (DHA) inhibit angiogenesis, tumor growth, and metastasis. Proc. Natl. Acad. Sci. USA 110(16), 6530-6535 (2013).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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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