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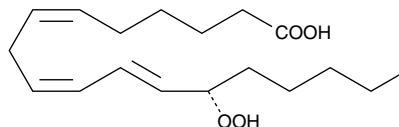
Product Information



13(S)-HpOTrE(γ)

Item No. 45210

CAS Registry No.: 121107-97-9
Formal Name: 13S-hydroperoxy-6Z,9Z,11E-octadecatrienoic acid
MF: C₁₈H₃₀O₄
FW: 310.4
Purity: \geq 98%
Stability: \geq 1 year at -80°C
Supplied as: A solution in ethanol
UV/Vis: λ_{max} : 236 nm ϵ : 23,000



Laboratory Procedures

For long term storage, we suggest that 13(S)-HpOTrE(γ) be stored as supplied at -80°C. It should be stable for at least one year.

13(S)-HpOTrE(γ) 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 13(S)-HpOTrE(γ) 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(S)-HpOTrE(γ) is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 13(S)-HpOTrE(γ) in PBS (pH 7.2) is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

13(S)-HpOTrE(γ) is a monohydroxy polyunsaturated fatty acids produced by the action of soybean lipoxygenase-1 (LO-1) on γ -linolenic acid.¹ Further action of soybean LO-1 converts 13(S)-HpOTrE(γ) to all four isomers of 6,13-DiHOTrE.² At concentrations greater than 100 μ M, 13(S)-HpOTrE(γ) inhibits the activity of soybean LO-1.³

References

1. Funk, M.O., Isaac, R., and Porter, N.A. Preparation and purification of lipid hydroperoxides from arachidonic and γ -linolenic acids. *Lipids* **11**, 113-116 (1976).
2. Kim, M.R. and Sok, D.-E. Formation of 6,13-dihydroxyoctadecatrienoic acid isomers from γ -linolenic acid. *Biochem. Biophys. Res. Commun.* **159**, 1154-1160 (1989).
3. Kim, M.R. and Sok, D.-E. Irreversible inhibition of soybean lipoxygenase-1 by hydroperoxy acids as substrates. *Arch. Biochem. Biophys.* **288**, 270-275 (1991).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/45210

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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