PRODUCT INFORMATION



9(S)-HpODE

Item No. 48410

CAS Registry No.:	29774-12-7	
Formal Name:	9S-hydroperoxy-10E,12Z-octadecadienoic	
MF: FW: Purity: UV/Vis.: Supplied as: Storage: Stability:	acid $C_{18}H_{32}O_4$ 312.4 $\geq 98\%$ λ_{max} : 234 nm A solution in ethanol $-80^{\circ}C$ ≥ 2 years	ноо
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.		

Laboratory Procedures

9(S)-HpODE is supplied as a solution in ethanol. To change the solvent, 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 9(S)-HpODE 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 9(S)-HpODE is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 9(S)-HpODE in PBS, pH 7.2, is approximately 1 mg/ml. 9(S)-HpODE is highly unstable in aqueous solutions. We recommend that 9(S)-HpODE diluted in aqueous solution be used as soon as possible, preferably within 15 minutes.

Description

9(S)-HpODE is produced by the action of arachidonate 5-lipoxygenase on linoleic acid. It can be further metabolized by potato hydroperoxide dehydratase to colneleic acid.^{1,2}

References

- 1. Galliard, T. and Phillips, D.R. The enzymic conversion of linoleic acid into 9-(nona-1',3'-dienoxy)non-8enoic acid, a novel unsaturated ether derivative isolated from homogenates of Solanum tuberosum tubers. Biochem. J. 129, 743-753 (1972).
- 2. Fahlstadius, P. and Hamberg, M. Stereospecific removal of the pro-R hydrogen at C-8 of (9S)-hydroperoxy octadecadienoic acid in the biosynthesis of colneleic acid. J. Chem. Soc. Perkin Trans. 1, 2027-2030 (1990).

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

SAFFTY 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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