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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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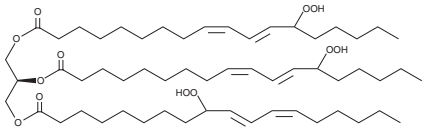
PRODUCT INFORMATION

Linolein Hydroperoxides

Item No. 89430



Purity: ≥98% (A mixture of 132 isomers)
Supplied as: A solution in ethanol
Storage: -80°C
Stability: ≥2 years

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

Laboratory Procedures

Linolein hydroperoxides are 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 dimethyl formamide purged with an inert gas can be used. Linolein hydroperoxides are miscible in DMF.

Linolein hydroperoxides are sparingly soluble in aqueous buffers. An ethanolic solution of linolein hydroperoxides at 0.1 mg/ml can be diluted with PBS (pH 7.2) up to 10 times resulting in a colloidal suspension. The suspension should be kept at room temperature and used within 10 minutes or else the compound will decompose. Cooling the liquid will separate the compound from the bulk of the liquid.

Description

Linolein hydroperoxides are a mixture of 132 possible isomers of mono-, di-, and tri-hydroperoxides produced from the autoxidation of trilinolein. Autoxidation of linoleic acid containing triglycerides (for example, trilinolein) *in vivo* could result in the formation of these hydroperoxides. Unlike the free fatty acid hydroperoxides of linoleic acid (for example, 13-HpODE), linolein hydroperoxides are not readily reduced in human plasma *in vitro*.[1] Circulating linolein hydroperoxides could contribute to the pathophysiology of atherosclerosis.

Reference

1. Frei, B., Stocker, R., and Ames, B.N. Antioxidant defenses and lipid peroxidation in human blood plasma. *Proc. Natl. Acad. Sci. USA* **85(24)**, 9748-9752 (1988).

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