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- Expressversand

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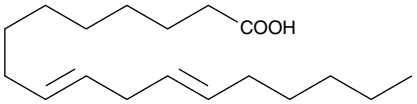
Product Information

Linoelaidic Acid

Item No. 90160

CAS Registry No.: 506-21-8
Formal Name: 9E,12E-octadecadienoic acid
MF: $C_{18}H_{32}O_2$
FW: 280.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A solution in ethanol
Misc: Oxygen and light sensitive



Laboratory Procedures

For long term storage, we suggest that linoelaidic acid be stored as supplied at -20°C. It should be stable for at least two years.

Linoelaidic acid 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 or dimethyl formamide purged with an inert gas can be used. The solubility of linoelaidic acid in these solvents is approximately 100 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 aqueous solution of linoelaidic acid is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in basic buffers. The solubility of linolelaidic acid in 0.15 M Tris-HCl buffer (pH 8.5) is approximately 1 mg/ml. Store aqueous solutions of linoelaidic acid on ice and use within 12 hours of preparation. Although the aqueous solutions of linoelaidic acid may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

Linoelaidic acid is the *trans, trans-* isomer of linoleic acid. Linoelaidic acid is a polyunsaturated fatty acid (PUFA) found in plant tissues and commercially in cooking oils. In human platelets incubated with arachidonic acid, linoelaidic acid inhibits HHT and HETE formation while inducing prostaglandin and thromboxane synthesis.[1]

Reference

1. Srivastava, K.C. and Awasthi, K.K. A comparative study on the effect of *cis* (oleic, linoleic) and *trans* (elaidic, linoelaidic) fatty acids on the *in vitro* prostaglandin biosynthesis in human blood platelets from (1-^{14}C) arachidonic acid. *Prostaglandins Leukot. Med.* **9,** 669-684 (1982).

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