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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



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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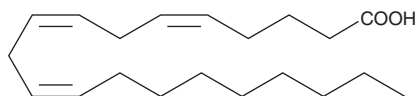
Product Information



5(Z),8(Z),11(Z)-Eicosatrienoic Acid

Item No. 90190

| | |
|-------------------------|--|
| CAS Registry No: | 20590-32-3 |
| Formal Name: | 5Z,8Z,11Z-eicosatrienoic acid |
| Synonyms: | Mead acid |
| MF: | C ₂₀ H ₃₄ O ₂ |
| FW: | 306.5 |
| Purity: | ≥98% |
| Stability: | ≥1 year at -20°C |
| Supplied as: | A solution in ethanol |
| Misc: | Oxygen and light sensitive |



Laboratory Procedures

Eicosatrienoic acid (mead acid) is not found in normal tissues but accumulates under essential fatty acid deficiency.¹ For long term storage, we suggest that mead acid be stored as supplied at -20°C. It will be stable for at least one year.

Mead 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 mead acid in these solvents is at least 100 mg/ml. Mead acid is stable for at least six months in these solvents if stored at -20°C.

Mead acid is sparingly soluble in aqueous buffers. Therefore, further dilutions of the organic solvent 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. Store aqueous solutions of mead acid on ice and use within 12 hours of preparation. Although the aqueous solutions of mead acid may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

The kidneys of rats subjected to an essential fatty acid deficient diet are less immunogenic when transplanted. It is believed that the metabolites from the accumulated mead acid prevent leukocyte movement through the renal interstitium. This depletion of resident leukocytes, which express class II histocompatibility antigens, make the organ less immunogenic.²

References

1. Lefkowitz, J.B. Essential fatty acid deficiency: Probing the role of arachidonate in biology. *Adv. Prostaglandin Thromboxane Leukotriene Res.* **20**, 224-231 (1990).
2. Schreiner, G.F., Flye, W., Brunt, E., *et al.* Essential fatty acid depletion of renal allografts and prevention of rejection. *Science* **240**, 1032-1033 (1988).

Related Products

5(Z),8(Z),11(Z)-Eicosatrienoic Acid-d₆ - Item No. 10742 • 11(Z),14(Z),17(Z)-Eicosatrienoic Acid - Item No. 90192 • 5(Z),8(Z),11(Z)-Eicosatrienoic Acid Ethanolamide - Item No. 90195 • 5(Z),8(Z),11(Z)-Eicosatrienoic Acid methyl ester - Item No. 9000215 • 5(Z),8(Z),11(Z)-Eicosatrienoic Acid methyl ester - Item No. 10009733 • 5(Z),11(Z),14(Z)-Eicosatrienoic Acid - Item No. 10009999

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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