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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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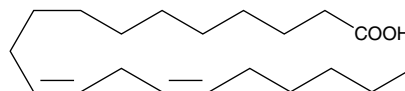
Product Information



11(Z),14(Z)-Eicosadienoic Acid

Item No. 90330

CAS Registry No:	2091-39-6
Formal Name:	11Z,14Z-eicosadienoic acid
MF:	C ₂₀ H ₃₆ O ₂
FW:	308.5
Purity:	≥98%
Stability:	≥1 year at -20°C
Supplied as:	A solution in ethanol
Misc:	Oxygen and light sensitive



Laboratory Procedures

11(Z),14(Z)-Eicosadienoic acid is a naturally occurring polyunsaturated fatty acid. For long term storage, we suggest that 11(Z),14(Z)-eicosadienoic acid be stored as supplied at -20°C. It will be stable for at least one year.

11(Z),14(Z)-Eicosadienoic 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 can be used. To prevent oxidation of 11(Z),14(Z)-eicosadienoic acid, the solvent should be purged with an inert gas. The solubility of 11(Z),14(Z)-eicosadienoic acid in these solvents is at least 100 mg/ml. 11(Z),14(Z)-Eicosadienoic acid is stable for at least six months in these solvents if stored at -20°C.

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 11(Z),14(Z)-eicosadienoic acid is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in basic buffers. 11(Z),14(Z)-eicosadienoic acid is sparingly soluble in neutral buffers. Store aqueous solutions of 11,14-EDA on ice and use within 12 hours of preparation. Although the aqueous solutions of 11(Z),14(Z)-eicosadienoic acid may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

11(Z),14(Z)-Eicosadienoic acid inhibits the binding of [³H]leukotriene B₄ to pig neutrophil membranes with a K_i = 3 μM. This inhibitory activity may account for the anti-inflammatory activity of 11(Z),14(Z)-eicosadienoic acid.¹

Reference

1. Yagaloff, K.A., Franco, L., Simko, B., *et al.* Essential fatty acids are antagonists of the leukotriene B₄ receptor. *Prostaglandins Leukot. Essent. Fatty Acids* **52**, 293-297 (1995).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/90330

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY. NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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 Safety Data Sheet, which has been sent via email to your institution.

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