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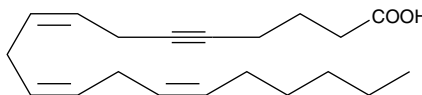
Product Information



5,6-dehydro Arachidonic Acid

Item No. 90020

CAS Registry No.: 58688-54-3
Formal Name: 8Z,11Z,14Z-eicosatrien-5-ynoic acid
Synonym: 5,6-dehydro AA
MF: C₂₀H₃₀O₂
FW: 302.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol
Misc: Oxygen and light sensitive



Laboratory Procedures

5,6-dehydro Arachidonic Acid (5,6-dehydro AA) is an analog of AA in which the 5,6 double bond has been replaced with an acetylene group. For long term storage, we suggest that 5,6-dehydro Arachidonic Acid (5,6-dehydro AA) be stored as supplied at -20°C. It should be stable for at least one year.

5,6-dehydro AA 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 5,6-dehydro AA, the solvent should be purged with an inert gas. The solubility of 5,6-dehydro AA 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 5,6-dehydro AA is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in basic buffers. 5,6-dehydro AA is sparingly soluble in neutral buffers. Store aqueous solutions of 5,6-dehydro AA on ice and use within 12 hours of preparation. Although the aqueous solutions of 5,6-dehydro AA may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

5,6-dehydro AA is an analog of arachidonic acid with an acetylene in the 5,6 position. It inhibits 5-lipoxygenase (5-LO) in rat basophilic leukemia cells, with a K_i value of 15 μM.¹ In guinea pig leukocytes, 5-LO is inhibited by 5,6-dehydro AA with an IC₅₀ value of 10 μM.¹

Reference

1. Sok, D-E., Han, C-Q., Pai, J-K., *et al.* Inhibition of leukotriene biosynthesis by acetylenic analogs. *Biochem. Biophys. Res. Commun.* **107**, 101-108 (1982).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/90020

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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