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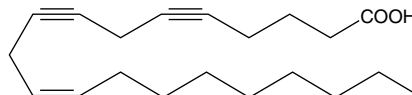
Product Information



5,8,11-Eicosatriynoic Acid

Item No. 90200

CAS Registry No.: 13488-22-7
Formal Name: 5,8,11-eicosatriynoic acid
Synonym: 5,8,11-ETI
MF: C₂₀H₂₈O₂
FW: 300.4
Purity: ≥99%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

5,8,11-Eicosatriynoic acid (5,8,11-ETI) is a synthetic polyunsaturated fatty acid. For long term storage, we suggest that ETI be stored as supplied at -20°C. It should be stable for at least two years.

5,8,11-ETI is supplied as a crystalline solid. A stock solution may be made by dissolving the 5,8,11-ETI in the solvent of choice. 5,8,11-ETI is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 5,8,11-ETI in these solvents is approximately 20 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. 5,8,11-ETI is sparingly soluble in neutral aqueous buffers. For greater aqueous solubility, 5,8,11-ETI can be directly dissolved in 0.15 M Tris-HCl (pH 8.0) and then diluted with PBS (pH 7.2) to achieve the desired concentration or pH.

Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

5,8,11-ETI is a nonselective inhibitor of lipoxygenases. It is a suicide inhibitor of 12-lipoxygenase in human platelets with an ID₅₀ = 24 μM.¹ 5,8,11-ETI also inhibits A23187 and L-cysteine induced leukotriene C₄ biosynthesis in mouse mastocytoma cells with an ID₅₀ = 5 μM.² At higher concentrations, 5,8,11-ETI also inhibits cyclooxygenases (ID₅₀ = 340 μM.)¹

References

1. Hammarström, S. Selective inhibition of platelet n-8 lipoxygenase by 5,8,11-eicosatriynoic acid. *Biochim. Biophys. Acta* **487**, 517-519 (1977).
2. Örnig, L. and Hammarström, S. Inhibition of leukotriene C and leukotriene D biosynthesis. *J. Biol. Chem.* **255**, 8023-8026 (1980).

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MATERIAL SAFETY DATA

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