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**Product Data Sheet**

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Product Name: 5,8,11-Eicosatriynoic Acid

Cat. No.: GC13319

**Chemical Properties**

Cas. No. 13488-22-7

Chemical Name 5,8,11-eicosatriynoic acid

SMILES CCCCCCCCCCCCCCCCCC(=O)O

Formula C<sub>20</sub>H<sub>28</sub>O<sub>2</sub>

M.Wt 300.4

Solubility ≤20mg/ml in ethanol;20mg/ml in DMSO;20mg/ml in dimethyl formamide

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

5,8,11-Eicosatriynoic Acid is a selective inhibitor of lipoxygenases with ID50 values of 24 μM and 340 μM for n-8 lipoxygenase and fatty acid cycle-oxygenase , respectively[1][2].

Fatty acid cycle-oxygenase and n-8 lipoxygenase catalyze the initial reactions which lead to the formation of three major arachidonic acid metabolites in human platelets. In several tissues, these two enzymes act concomitantly on arachidonic acid [1].

5,8,11-Eicosatriynoic Acid (5,8,11-ET) is a selective inhibitor of lipoxygenases with ID50 values of 24 μM and 340 μM for n-8 lipoxygenase and fatty acid cycle-oxygenase, respectively. 5,8,11-Eicosatriynoic acid was useful for studies on physiological and pathophysiological roles of 12 L-hydroxy-5,8,10,14-eicosatetraenoic acid formation in various tissues [1]. In mouse mastocytoma cells, 5,8,11-Eicosatriynoic Acid inhibited A23187 and L-cysteine induced leukotriene C (LTC<sub>4</sub>) biosynthesis with ID50 value of 5 μM [2].

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### References:

- [1]. Hammarstrm S. Selective inhibition of platelet n-8 lipoxygenase by 5,8,11-eicosatriynoic acid. *Biochim Biophys Acta*. 1977 Jun 22;487(3):517-9.
- [2]. Orning L, Hammarstrm S. Inhibition of leukotriene C and leukotriene D biosynthesis. *J Biol Chem*. 1980 Sep 10;255(17):8023-6.

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