

## 11(Z),14(Z)-Eicosadienoic acid

## Chemical Properties

CAS No. : 5598-38-9

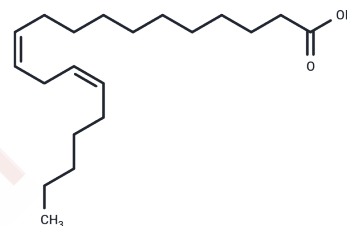
Formula: C<sub>20</sub>H<sub>36</sub>O<sub>2</sub>

Molecular Weight: 308.5

Keep away from direct sunlight, Keep away from moisture

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	11(Z),14(Z)-Eicosadienoic acid is an unsaturated fatty acid and metabolite that inhibits the binding of [ <sup>3</sup> H]LTB <sub>4</sub> to neutrophil modules (K <sub>i</sub> =3 μm).
Targets(IC <sub>50</sub> )	Endogenous Metabolite,LTR,Leukotriene Receptor
In vitro	11(Z),14(Z)-Eicosadienoic acid inhibits the binding of radiolabeled leukotriene B <sub>4</sub> ( <sup>3</sup> H]-LTB <sub>4</sub> ) to porcine neutrophil membranes with a K <sub>i</sub> of 3 μM, indicating its potential anti-inflammatory activity[1].

## Solubility Information

Solubility	Ethanol: 80 mg/mL (259.32 mM),Sonication is recommended. DMSO: 100 mg/mL (324.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2415 mL	16.2075 mL	32.4149 mL
5 mM	0.6483 mL	3.2415 mL	6.483 mL
10 mM	0.3241 mL	1.6207 mL	3.2415 mL
50 mM	0.0648 mL	0.3241 mL	0.6483 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yagaloff KA, Franco L, Simko B, Burghardt B. Essential fatty acids are antagonists of the leukotriene B4 receptor. Prostaglandins Leukot Essent Fatty Acids. 1995 May;52(5):293-7.

Carballeira NM, Shalabi F. Identification of naturally occurring trans, trans delta 5,9 fatty acids from the sponge Plakortis halichondroides. Lipids. 1990 Dec;25(12):835-40.

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