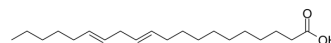


## Eicosadienoic acid

Cat. No.:	HY-113130	
CAS No.:	2091-39-6	
Molecular Formula:	C <sub>20</sub> H <sub>36</sub> O <sub>2</sub>	
Molecular Weight:	308.5	
Target:	Endogenous Metabolite	
Pathway:	Metabolic Enzyme/Protease	
Storage:	Pure form	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (324.15 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			1 mM	3.2415 mL	16.2075 mL	32.4149 mL
			5 mM	0.6483 mL	3.2415 mL	6.4830 mL
10 mM	0.3241 mL	1.6207 mL	3.2415 mL			
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.10 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.10 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.10 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	Eicosadienoic acid is a rare, naturally occurring n-6 polyunsaturated fatty acid found mainly in animal tissues <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	Human Endogenous Metabolite
In Vitro	Eicosadienoic acid inhibits the binding of [ <sup>3</sup> H]-LTB <sub>4</sub> to pig neutrophil membranes with a K <sub>i</sub> of 3 μM <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Cell Rep. 2022 Sep 20;40(12):111381.

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## REFERENCES

- [1]. Huang YS, et al. Eicosadienoic acid differentially modulates production of pro-inflammatory modulators in murine macrophages. Mol Cell Biochem. 2011 Dec;358(1-2):85-94.
- [2]. Yagaloff KA, et al. Essential fatty acids are antagonists of the leukotriene B4 receptor. Prostaglandins Leukot Essent Fatty Acids. 1995 May;52(5):293-7.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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