

Eicosadienoic acid

Chemical Properties

CAS No. : 2091-39-6

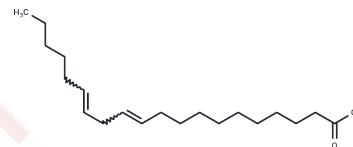
Formula: C₂₀H₃₆O₂

Molecular Weight: 308.50

Store at low temperature, Keep away from direct sunlight

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	Eicosadienoic acid is a rare, natural n-6 polyunsaturated fatty acid found mainly in animal tissues.
Targets(IC ₅₀)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 60 mg/mL (194.49 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.48 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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

Sofia, Gol, Ramona, et al. A polymorphism in the fatty acid desaturase-2 gene is associated with the arachidonic acid metabolism in pigs.[J]. Scientific reports, 2018.

Huang Y S , Huang W C , Li C W , et al. Eicosadienoic acid differentially modulates production of pro-inflammatory modulators in murine macrophages[J]. Molecular & Cellular Biochemistry, 2011, 358(1-2):85-94.

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