

11(Z),14(Z),17(Z)-Eicosatrienoic acid

Chemical Properties

CAS No. : 17046-59-2

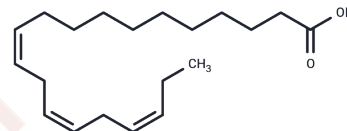
Formula: C₂₀H₃₄O₂

Molecular Weight: 306.48

Store at low temperature

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),17(Z)-Eicosatrienoic acid is an unsaturated fatty acid capable of maintaining continuous replication of functional mitochondria in <i>Saccharomyces cerevisiae</i> (KD115).
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 40 mg/mL (130.51 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: 1 mg/mL (3.26 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	3.2629 mL	16.3143 mL	32.6286 mL
5 mM	0.6526 mL	3.2629 mL	6.5257 mL
10 mM	0.3263 mL	1.6314 mL	3.2629 mL
50 mM	0.0653 mL	0.3263 mL	0.6526 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

Graff G, et al. Selective loss of mitochondrial genome can be caused by certain unsaturated fatty acids. Arch Biochem Biophys. 1983 Jul 1;224(1):342-50.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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