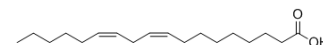


Linoleic acid

Cat. No.:	HY-N0729		
CAS No.:	60-33-3		
Molecular Formula:	C ₁₈ H ₃₂ O ₂		
Molecular Weight:	280.45		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 43.33 mg/mL (154.50 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		3.5657 mL	17.8285 mL	35.6570 mL
5 mM		0.7131 mL	3.5657 mL	7.1314 mL	
10 mM		0.3566 mL	1.7828 mL	3.5657 mL	

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
Solubility: ≥ 2.17 mg/mL (7.74 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
Solubility: ≥ 2.17 mg/mL (7.74 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 2.17 mg/mL (7.74 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Linoleic acid is a critical component of polyunsaturated fatty acids.

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

Linoleic acid contains unsaturated double bonds that are highly vulnerable to free radical attack and oxidation. If ROS

are produced in great quantities, the body can no longer efficiently remove them. In such instances, ROS may be released into the extracellular space, causing damage to surrounding cells and tissues. Linoleic acid is a decomposition product of a free fatty acid and has been linked to erythrocyte damage^[1].

REFERENCES

[1]. Yuan T, et al. Linoleic acid induces red blood cells and hemoglobin damage via oxidative mechanism. Int J Clin Exp Pathol. 2015 May 1;8(5):5044-52.

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

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