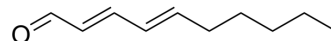


2,4-Decadienal

Cat. No.:	HY-W760733
CAS No.:	2363-88-4
Molecular Formula:	C ₁₀ H ₁₆ O
Molecular Weight:	152.23
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (656.90 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	6.5690 mL	32.8450 mL	65.6901 mL
		5 mM	1.3138 mL	6.5690 mL	13.1380 mL
		10 mM	0.6569 mL	3.2845 mL	6.5690 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 (16.42 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.42 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.42 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	2,4-Decadienal is a toxic aldehyde produced by the oxidation of linoleic acid-rich oils. 2,4-decadienal can be used as an alternative oxidation indicator for linoleic acid-rich oils ^[1] .
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REFERENCES

[1]. Sun H, et al. Determination of 2,4-decadienal in edible oils using reversed-phase liquid chromatography and its application as an alternative indicator of lipid oxidation. J Food Sci. 2020;85(5):1418-1426.

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

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