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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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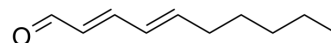
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trans,trans-2,4-Decadienal

Cat. No.:	HY-W013627	
CAS No.:	25152-84-5	
Molecular Formula:	C ₁₀ H ₁₆ O	
Molecular Weight:	152.23	
Target:	Others	
Pathway:	Others	
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 (656.90 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions			1 mg	5 mg
		1 mM		6.5690 mL	32.8450 mL
		5 mM		1.3138 mL	6.5690 mL
	10 mM		0.6569 mL	3.2845 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); Suspended solution; Need ultrasonic				
	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	trans,trans-2,4-Decadienal is a lipid peroxidation product of linoleic acid ^[1] .
In Vitro	Two metabolic pathways for the biotransformation of trans,trans-2,4-Decadienal (tt-DDE) in vivo are proposed: (i) the oxidation of tt-DDE to the corresponding carboxylic acid, 2,4-decadienoic acid, in liver cells and (ii) glutathione (GSH) conjugation, GSH breakdown, and aldehyde reduction, which generate cysteine-conjugated 2,4-decadien-1-ol in both liver and lung cells. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kao-Lu Pan, et al. Identification of trans,trans-2,4-decadienal metabolites in mouse and human cells using liquid chromatography-mass spectrometry. Chem Res Toxicol. 2014 Oct 20;27(10):1707-19.

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

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