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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Linoleyl alcohol

Cat. No.:	HY-W005627
CAS No.:	506-43-4
Molecular Formula:	C ₁₈ H ₃₄ O
Molecular Weight:	266.46
Target:	Drug Derivative
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 (375.29 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.7529 mL	18.7645 mL	37.5291 mL
		5 mM		0.7506 mL	3.7529 mL	7.5058 mL
		10 mM		0.3753 mL	1.8765 mL	3.7529 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 (9.38 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (9.38 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.38 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Linoleyl alcohol, a structural analog of Linoleic acid with no α-carboxyl group, is a fatty alcohol ^[1] .
In Vitro	The dioxygenation of Linoleyl alcohol by potato tuber lipoxygenase leads to formation of two positional isomeric products- 9- and 13-hydroperoxyoctadecadien-1-ols^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Animal feeding experiments have revealed that esters made from Gallic acid (GA) and (-)-Epigallo-catechin (EGC) or Linoleyl alcohol are more effective in weight-loss promotion and metabolic syndrome management than are intact GA and EGC ^[2] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. I A Butovich, et al. Oxidation of linoleyl alcohol by potato tuber lipoxygenase: kinetics and positional, stereo, and geometrical (cis, trans) specificity of the reaction. Arch Biochem Biophys. 2000 Jun 1;378(1):65-77.
- [2]. Nagao Totani, et al. Gallic acid glycerol ester promotes weight-loss in rats. J Oleo Sci. 2011;60(9):457-62.
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Caution: Product has not been fully validated for medical applications. For research use only.

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