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Produktinformation

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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: 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 (375.29 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	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 a-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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