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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Ricinoleic acid (purity≥99%)

Cat. No.: HY-N6070A

CAS No.: 141-22-0

Molecular Formula: $C_{18}H_{34}O_3$

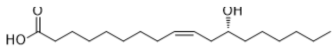
Molecular Weight: 298.46

Target: Biochemical Assay Reagents

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 (335.05 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.3505 mL	16.7527 mL	33.5053 mL
	5 mM	0.6701 mL	3.3505 mL	6.7011 mL
	10 mM	0.3351 mL	1.6753 mL	3.3505 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ricinoleic acid (purity≥99%), a hydroxy fatty acid, is an attractive feedstock for the production of high-performance lubricants, cosmetics, polymers, surfactants, and coatings. Ricinoleic acid has analgesic properties, pro- or anti-inflammatory effects, and antagonistic activity against the prostaglandin E3 receptor[1][2].

In Vitro

Ricinoleic acid (10-100 μM, 24 h) inhibits the release of β-HEX in RBL-2H3 cells induced by DNP-BSA in a dose-dependent manner in RBL-2H3 cells[2].

Ricinoleic acid (10-100 μM, 24 h) inhibits glucose production in a dosedependent manner in H4IIE cells[2].

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

Western Blot Analysis[2]

Cell Line:	H4IIE cells
Concentration:	100 μM
Incubation Time:	1 h
Result:	Increased the level of GSK-3β phosphorylation at Ser9. Increased the stability of β-catenin at the protein level. Decreased the phosphorylated GS to total GS ratio.

REFERENCES

[1]. Yoshida J, et al. Inhibition of Calcineurin and Glycogen Synthase Kinase-3β by Ricinoleic Acid Derived from Castor Oil. Lipids. 2020 Mar;55(2):89-99.

[2]. Tian B, et al. Identification of genes associated with ricinoleic acid accumulation in Hiptage benghalensis via transcriptome analysis. Biotechnol Biofuels. 2019 Jan 21;12:16.

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