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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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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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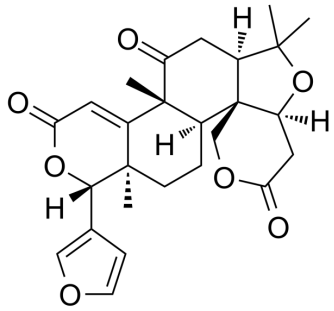
Deoxylimonin

Cat. No.:	HY-N7640
CAS No.:	989-23-1
Molecular Formula:	$C_{26}H_{30}O_7$
Molecular Weight:	454.51
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (220.02 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2002 mL	11.0009 mL	22.0017 mL
	5 mM	0.4400 mL	2.2002 mL	4.4003 mL
	10 mM	0.2200 mL	1.1001 mL	2.2002 mL

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

BIOLOGICAL ACTIVITY

Description

Desoxylimonin is an orally active triterpenoid compound found from grapefruit seed. Desoxylimonin shows anti-proliferative activities to breast cancer cells. Desoxylimonin derivatives shows better anticancer, analgesic and anti-inflammatory activity than the lead compound[1].

In Vitro

Deoxylimonin (0-90 μg/mL, 48 h) treatment shows anti-proliferation activities to breast cancer cells[2].

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

Cell Proliferation Assay[2]

Cell Line:	MDA-MB-435 and MCF-7 cells
Concentration:	0-90 μg/mL
Incubation Time:	48 hours
Result:	Showed IC_{50} values of 0.78 μg/mL and 2.50 μg/mL for MDA-MB-435 and MCF-7 cells, respectively.

In Vivo

Deoxylimonin (oral administration; 70 mg/kg; once) treatment shows antinociception effects in vivo[1].

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

Animal Model:	Mice injected with acetic acid[1]
Dosage:	70 mg/kg
Administration:	Oral administration; 70 mg/kg; once
Result:	Showed the antinociception efficacy (writhing inhibition rate: 24.61%).

REFERENCES

[1]. N. Guthri, et al. Inhibition of Human Breast Cancer Cells by Citrus Limonoids. ACS Symposium SeriesVol. 758, July 30, 2000.

[2]. Shaochi Wang, et al. Discovery of deoxylimonin δ-lactam derivative with favorable anti-inflammation and antinociception efficacy from chemical modified limonin/deoxylimonin analogs. Bioorg Chem. 2020 Jul;100:103886.

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