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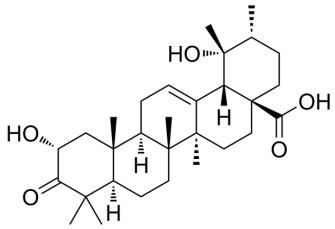
2α,19α-Dihydroxy-3-oxo-urs-12-en-28-oic acid

Cat. No.:	HY-N4155
CAS No.:	176983-21-4
Molecular Formula:	$C_{30}H_{46}O_5$
Molecular Weight:	486.68
Target:	HIV Protease; HSV; EBV
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description

2α,19α-Dihydroxy-3-oxo-urs-12-en-28-oic acid, a natural ursane-type triterpene, is a potent inhibitor of HIV protease (HIV Protease). 2α,19α-Dihydroxy-3-oxo-urs-12-en-28-oic acid is also an inhibitor of the activation of Epstein-Barr virus early antigen (EBV-EA). 2α,19α-Dihydroxy-3-oxo-urs-12-en-28-oic acid displays an inhibitory activity against nitric oxide production in Lipopolysaccharide (Lipopolysaccharides)-activated RAW 264.7 cells[1][2].

In Vitro

2α,19α-Dihydroxy-3-oxo-urs-12-en-28-oic acid (0.01-0.1 μM) displays moderate inhibitory activities against nitric oxide production in Lipopolysaccharide-activated macrophage cell lines, RAW 264.7 cells[1].

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

In Vivo

2α,19α-Dihydroxy-3-oxo-urs-12-en-28-oic acid (0.0025%; drinking water; for 20 weeks) shows an inhibitory effect on the activation of EBV-EA induced by TPA and causes a significant delay of two-stage carcinogenesis on mouse skin[2].

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

Animal Model:	Female ICR mice (6 weeks old)[2]
Dosage:	0.0025%
Administration:	Drinking water; for 20 weeks
Result:	Showed an inhibitory effect on the activation of EBV-EA induced by 12-O-tetradecanoylphorbol-13-acetate (TPA).

REFERENCES

[1]. Xiao-Peng Wu, et al. A new ursane-type triterpene, cymosic acid from Rosa cymosa. J Asian Nat Prod Res. 2014;16(4):422-5.

[2]. Shoko Taniguchi, et al. Production of bioactive triterpenes by Eriobotrya japonica calli. Phytochemistry. 2002 Feb;59(3):315-23.

[3]. Xiao-Peng Wu, et al. A new ursane-type triterpene, cymosic acid from Rosa cymosa. J Asian Nat Prod Res. 2014;16(4):422-5.

[4]. Shoko Taniguchi, et al. Production of bioactive triterpenes by Eriobotrya japonica calli. Phytochemistry. 2002 Feb;59(3):315-23.

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

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