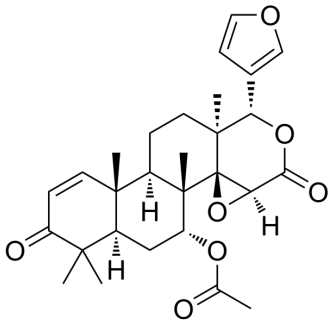
Gedunin

Cat. No.:	HY-107577
CAS No.:	2753-30-2
Molecular Formula:	$C_{28}H_{34}O_7$
Molecular Weight:	482.57
Target:	HSP
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Gedunin is a limonoid with anti-cancer, anti-viral, anti-inflammatory and insecticidal activities. Gedunin acts as a potent Hsp90 inhibitor and induces the degradation of Hsp90-dependent client proteins. Geduni may obstructs the entry of SARS-CoV-2 virus into human host cells and can be used for COVID-19 research[3].
IC_{50} & Target	HSP90
In Vitro	Gedunin (0.5-30 μM) inhibits CaCo-2 colon cancer cell proliferationin a dose-dependent manner, and the IC50 value is 16.83 μM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shaikh J Uddin, et al. Gedunin, a limonoid from Xylocarpus granatum, inhibits the growth of CaCo-2 colon cancer cell line in vitro. Phytother Res. 2007 Aug;21(8):757-61.

[2]. Gary E L Brandt, et al. Gedunin, a novel hsp90 inhibitor: semisynthesis of derivatives and preliminary structure-activity relationships. J Med Chem. 2008 Oct 23;51(20):6495-502

[3]. Seshu Vardhan, et al. Virtual screening by targeting proteolytic sites of furin and TMPRSS2 to propose potential compounds obstructing the entry of SARS-CoV-2 virus into human host cells. J Tradit Complement Med. 2021 Apr 12.

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