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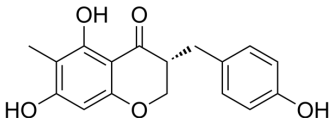
LPRP-Et-97543

Cat. No.:	HY-N8168
CAS No.:	84638-48-2
Molecular Formula:	$C_{17}H_{16}O_5$
Molecular Weight:	300.31
Target:	HBV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LPRP-Et-97543 is a potent anti-HBV agent. LPRP-Et-97543 reduces Core, S, and preS but not X promoter activities. LPRP-Et-97543 can be used for acute and chronic HBV infections research[1].
In Vitro	LPRP-Et-97543 (0.625-40 μg/ml; 3 days) causes cytotoxic effects at doses >10 μg/ml in HepG2.2.15 and HBV-transfected Huh7 cells[1]. LPRP-Et-97543 (2.5-10 μg/ml; 3 days) has inhibitory effects on HBsAg and HBeAg secretions. And the HBeAg inhibition rate is higher than the HBsAg inhibition rate in HepG2.2.15 cells[2]. LPRP-Et-97543 (2.5-10 μg/ml; 2 days after transfected with pHBV1.2 plasmid for 2 days) significantly reduces both precore/pregenomic and major S/preS RNA with the LPRP-Et-97543 inhibition potential higher on surface RNA than on the precore/pregenomic RNA[2]. LPRP-Et-97543 (2.5-10 μg/ml; 2 days after transfected with pHBV1.2 plasmid for 2 days) potently reduces intracellular LHBsAg and HBcAg protein levels compared to vehicle controls. Additionally, LPRP-Et-97543 potently inhibits the replication HBV DNAlevel in HBV transfected Huh7 cells[2]. LPRP-Et-97543 (2.5-10 μg/ml; 2 days after transfected with pHBV1.2 plasmid for 2 days) reduces nuclear p65/p50 NF-κB protein expression and reduces phosphorylated NF-κBp65 in Huh7 cells[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	Huh7 cells with or without pHBV1.2
Concentration:	2.5-10 μg/ml
Incubation Time:	2 days
Result:	Decreased nuclear and nuclear p-p65 expression and increased cytoplasmic IκBα expression.

REFERENCES

[1]. Tsurng-Juhn Huang, et al. Anti-viral effect of a compound isolated from Liriope platyphylla against hepatitis B virus in vitro.Virus Res. 2014 Nov 4;192:16-24.

[2]. Yi-Hang Wu, et al. Naturally derived anti-hepatitis B virus agents and their mechanism of action. World J Gastroenterol. 2016 Jan 7;22(1):188-204.

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

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