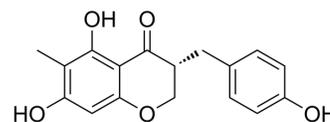


LPRP-Et-97543

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	<p>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].</p> <p>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].</p> <p>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].</p> <p>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 DNA level in HBV transfected Huh7 cells^[2].</p> <p>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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Huh7 cells with or without pHBV1.2</td> </tr> <tr> <td>Concentration:</td> <td>2.5-10 µg/ml</td> </tr> <tr> <td>Incubation Time:</td> <td>2 days</td> </tr> <tr> <td>Result:</td> <td>Decreased nuclear and nuclear p-p65 expression and increased cytoplasmic IκBα expression.</td> </tr> </table>	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.
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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