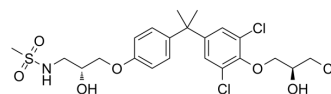


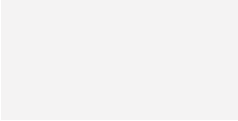
EPI-7170

Cat. No.:	HY-150102
CAS No.:	2139288-26-7
Molecular Formula:	C ₂₂ H ₂₈ Cl ₃ NO ₆ S
Molecular Weight:	540.88
Target:	Androgen Receptor
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	EPI-7170, a ralaniten analogue, is a potent androgen receptor N-terminal structural domain antagonist that blocks the transcriptional activity of full-length AR (FL-AR) and AR splice variants (AR-Vs). EPI-7170 has antitumor effects against enzalutamide resistant castration-resistant prostate cancer (CRPC) ^[1] .								
In Vitro	<p>EPI-7170 (0-12 μM, 24 or 48 h) inhibits cell proliferation in VCaP-ENZR and C4-2B-ENZR cells, also enhances the effect of enzalutamide which has a lower IC₅₀ when bound to EPI-7170^[1].</p> <p>EPI-7170 (0-20 μM, 24 or 48 h) synergistically inhibits androgen receptor (AR) transcriptional activity in ENZR cells expressing androgen receptor splice variant-7 (AR-V7) with enzalutamide^[1].</p> <p>EPI-7170 (3.5 μM, 48 h) results in an increase in G1 phase and a decrease in S phase, and reduces the expression levels of CDK4, cyclin D1 and cyclin A2 proteins^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cycle Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>C4-2B-ENZR cells</td> </tr> <tr> <td>Concentration:</td> <td>3.5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Resulted in an increase in G1 phase and a decrease in S phase, and reduced the expression levels of CDK4, cyclin D1 and cyclin A2 proteins.</td> </tr> </table>	Cell Line:	C4-2B-ENZR cells	Concentration:	3.5 μM	Incubation Time:	48 h	Result:	Resulted in an increase in G1 phase and a decrease in S phase, and reduced the expression levels of CDK4, cyclin D1 and cyclin A2 proteins.
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Concentration:	3.5 μM								
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In Vivo	<p>EPI-7170 (oral administration, 30 mg/kg, daily, 31 days) has some anti-tumor activity and can be combined with enzalutamide in male NOD/SCID mice^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>6-8 week old male NOD/SCID mice infected with VCaP-ENZR cells^[1]</td> </tr> <tr> <td>Dosage:</td> <td>30 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Oral administration; daily; 31 days</td> </tr> <tr> <td>Result:</td> <td>Significantly reduced tumor volume and decreased levels of FL-AR and AR-V7 in harvested</td> </tr> </table>	Animal Model:	6-8 week old male NOD/SCID mice infected with VCaP-ENZR cells ^[1]	Dosage:	30 mg/kg	Administration:	Oral administration; daily; 31 days	Result:	Significantly reduced tumor volume and decreased levels of FL-AR and AR-V7 in harvested
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xenografts.

REFERENCES

[1]. Hirayama Y, et al. Combination therapy with androgen receptor N-terminal domain antagonist EPI-7170 and enzalutamide yields synergistic activity in AR-V7-positive prostate cancer. *Mol Oncol.* 2020 Oct;14(10):2455-2470.

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

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