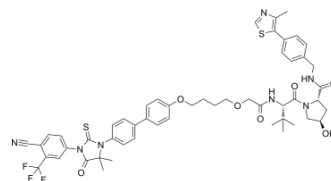


ARCC-4

Cat. No.:	HY-130492
CAS No.:	1973403-00-7
Molecular Formula:	C ₅₃ H ₅₆ F ₃ N ₇ O ₇ S ₂
Molecular Weight:	1024.18
Target:	PROTAC; Androgen Receptor
Pathway:	PROTAC; Others
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	ARCC-4 is a low-nanomolar androgen receptor (AR) degrader based on PROTAC , with a DC₅₀ of 5 nM. ARCC-4 is an enzalutamide-based von Hippel-Lindau (VHL)-recruiting AR PROTAC and outperforms enzalutamide. ARCC-4 effectively degrades clinically relevant AR mutants associated with antiandrogen therapy ^[1] .								
IC ₅₀ & Target	VHL								
In Vitro	<p>ARCC-4 induces apoptosis and inhibiting proliferation of AR-amplified prostate cancer cells^[1].</p> <p>ARCC-4 enhances protein-protein interactions between AR and VHL, thereby promoting the association of the trimeric complex^[1].</p> <p>ARCC-4 (0.1-10,000 nM; 20 hours) potently degrades AR with a D₅₀ of 5 nM and D_{max} of over 95%^[1].</p> <p>ARCC-4 (100 nM; 12 hours) shows near complete AR degradation (>98%) in prostate cancer cells^[1].</p> <p>ARCC-4 selectively degrades AR via the proteasome but not PR-A or PR-B suppression^[1].</p> <p>ARCC-4 shows efficacy against clinically relevant AR mutations^[1].</p> <p>ARCC-4 maintains activity despite elevated androgen levels^[1].</p> <p>Western Blot Analysis^[1]</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Cell Line:</td> <td>VCaP cells</td> </tr> <tr> <td>Concentration:</td> <td>0.1 nM, 1 nM, 10 nM, 50 nM, 100 nM, 0.5μM, 1μM, 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>20 hours</td> </tr> <tr> <td>Result:</td> <td>Potently degrades AR</td> </tr> </table>	Cell Line:	VCaP cells	Concentration:	0.1 nM, 1 nM, 10 nM, 50 nM, 100 nM, 0.5μM, 1μM, 10 μM	Incubation Time:	20 hours	Result:	Potently degrades AR
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Concentration:	0.1 nM, 1 nM, 10 nM, 50 nM, 100 nM, 0.5μM, 1μM, 10 μM								
Incubation Time:	20 hours								
Result:	Potently degrades AR								

REFERENCES

[1]. Salami J, et al. Androgen receptor degradation by the proteolysis-targeting chimera ARCC-4 outperforms enzalutamide in cellular models of prostate cancer drug resistance. *Commun Biol.* 2018 Aug 2;1:100.

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

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