## ARD-2128

Cat. No.:	HY-132292	
CAS No.:	2222111-87-5	
Molecular Formula:	C <sub>45</sub> H <sub>50</sub> ClN <sub>7</sub> O <sub>6</sub>	
Molecular Weight:	820.37	
Target:	PROTACs; Androgen Receptor	
Pathway:	PROTAC; Others	
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

## SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.2190 mL	6.0948 mL	12.1896 ml
Stock Solutions	5 mM	0.2438 mL	1.2190 mL	2.4379 mL
	10 mM	0.1219 mL	0.6095 mL	1.2190 mL

DIOLOGICALACITY		
Description	ARD-2128 is a highly potent, orally bioavailable PROTAC androgen receptor (AR) degrader. ARD-2128 effectively reduces AR protein, suppresses AR-regulated genes in tumor tissues, and inhibits growth of tumor without signs of toxicity. ARD-2128 has the potential for the research of the prostate cancer <sup>[1]</sup> .	
IC <sub>50</sub> & Target	IC50: 4 nM (VCaP), 5 μM (LNCaP) <sup>[1]</sup>	
In Vitro	ARD-2128 is highly potent and effective in the inhibition of cell growth in the VCaP cell line and LNCaP cell line with the IC <sub>50</sub> values of 4 nM and 5 nM, respectively <sup>[1]</sup> . ARD-2128 (1, 10, 100, and 1000 nM; 24 hours) effectively reduces the AR protein level by >50% at 1 nM and achieves the AR degradation of >90% at 10, 100, and 1000 nM, respectively, in VCaP cell <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>	
	Cell Line:	VCaP cell
	Concentration:	1, 10, 100, and 1000 nM

## Product Data Sheet

	Incubation Time:	24 hours
	Result:	Reduces the AR protein level and achieves the AR degradation.
In Vivo	ARD-2128 (20 mg/kg; p.c ARD-2128 (10-40 mg/kg; ARD-2128 (5mg/kg; p.o.) respectively <sup>[1]</sup> . MCE has not independer	p.; once) is effective in reducing the level of AR protein in mice after 24 hours <sup>[1]</sup> . ; p.o.; daily for 21 days) shows antitumor activity in the VCaP xenograft model in mice <sup>[1]</sup> . ) treatment shows the C <sub>max</sub> , AUC <sub>0-t</sub> and t <sub>1/2</sub> values of 1304 ng/mL, 22361 ng h/mL and 18.8 hours, ntly confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	SCID mice <sup>[1]</sup>
	Dosage:	20 mg/kg
	Administration:	Oral
	Result:	Reducing the level of AR protein in mice after 24 hours.
	Animal Model:	SCID mice <sup>[1]</sup>
	Dosage:	10, 20, and 40 mg/kg
	Administration:	P.o.; daily for 21 days
	Result:	Inhibits tumor growth by 46, 69, and 63%, respectively.
	Animal Model:	Male ICR Mice <sup>[1]</sup>
	Dosage:	5 mg/kg
	Administration:	P.o. (Pharmacokinetic Analysis)
	Result:	The Cmay, AUCo + and ty /2 were 1304 ng/mL, 22361 ng h/mL and 18.8 hours, respectively.

## REFERENCES

[1]. Han X, et al. Strategies toward Discovery of Potent and Orally Bioavailable Proteolysis Targeting Chimera Degraders of Androgen Receptor for the Treatment of Prostate Cancer [published online ahead of print, 2021 Aug 25]. J Med Chem. 2021;10.1021/acs.jmedchem.1c00882.

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

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