Product Data Sheet

A031

Cat. No.: CAS No.:	HY-148777 2682255-44-1	
Molecular Formula:	C ₅₀ H ₆₁ ClN ₁₀ O ₇ S	
Molecular Weight:	981.6	and the second s
Target:	Androgen Receptor; PROTACs	N HO HOLES
Pathway:	Others; PROTAC	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIV				
Description	A031 is a highly effective PROTAC androgen receptor (AR) degrader with an IC ₅₀ value less than 0.25 μM for AR protein degradation. A031 has an inhibitory effect on tumor growth in zebrafish with human prostate cancer (VCaP) ^[1] .			
In Vitro	A031 (0.125-1.000 μM) shows inhibition to AR with an IC ₅₀ value less than 0.25 μM ^[1] . A031 (2 μM; 2-4.5 h) reduces the AR protein level in VCaP cell lines ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]			
	Cell Line:	VCaP cell lines		
	Concentration:	2 μΜ		
	Incubation Time:	2, 3.5 and 4.5 hours		
	Result:	Reduced the AR protein level, and AR proteir	ns was almost degraded after 4.5 h treatment.	
In Vivo	A031 (2.8, 8.3 and 25 μM; in culture solution for 5 days) inhibits prostate cancer growth in zebrafish ^[1] . Pharmacokinetic Properties of A031 in Rats ^[1] .			
			Rats	
			IV 1 mg/kg	
		t _{1/2} (h)	0.57	
		C _{max} (ng/mL)	14366.2	
	A	JC _{last} (h·ng/mL)	1773.8	
	AUC	INF_pred (h∙ng/mL)	1773.8	
	Vz_pred (L/kg)		0.47	



	Cl_pred (L/h/kg)	0.57
MCE has not independe	ntly confirmed the accuracy of these metho	ods. They are for reference only.
Animal Model:	Wild type AB strain zebrafish with h	uman prostate cancer (VCap) cells transplantatio $^{[1]}$
Dosage:	2.8, 8.3 and 25 μM	
Administration:	Aqueous solution culture, at 35⊠, fo	or 5 days
Result:	Inihibited tumor growth with growt 25 μM, respectively.	h inhibition rates of 28%, 55% and 61% at 2.8, 8.3 and

REFERENCES

[1]. Chen L, et al. Discovery of A031 as effective proteolysis targeting chimera (PROTAC) androgen receptor (AR) degrader for the treatment of prostate cancer. Eur J Med Chem. 2021 Apr 15;216:113307.

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

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