CBPD-268

®

MedChemExpress

Cat. No.:	HY-161369	
Molecular Formula:	$C_{44}H_{47}F_2N_9O_5$	
Molecular Weight:	819.9	
Target:	Histone Acetyltransferase; PROTACs	EN F OUNO
Pathway:	Epigenetics; PROTAC	F
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	(^N N)

Description	CBPD-268 is a potent and orally active CBP/p300 PROTAC degrader with an DC ₅₀ value of ≤ 0.03 nM. CBPD-268 induces CBP/p300 degradation and inhibits cell growth. CBPD-268 shows antitumor activity. CBPD-268 has the potential for the research of AR-positive prostate cancer (Srtucture Note: Red, Androgen receptor degrader (HY-W248665A); Blue, CBP/p300 ligand (HY-161483); Black, Linker) ^[1] .							
In Vitro	CBPD-268 (4, 24 h) shows h cells ^[1] . CBPD-268 shows degradati CBPD-268 (0-1000 nM; 4 da MCE has not independently Cell Viability Assay ^[1] Cell Line: Concentration: Incubation Time: Result:	CBPD-268 (4, 24 h) shows high degradation efficiency for CBP and p300 protein with DC50 s of 0.01, 0.03 nM at 4 h in 22Rv1 cells ^[1] .CBPD-268 shows degradation by binding to both CBP/p300 and CRBN protein ^[1] .CBPD-268 (0-1000 nM; 4 days) inhibits cell growth with IC50 s of 3.7, 10.3, 4.6 nM for 22Rv1, LNCaP, VCaP cells, respectively ^[1] .MCE has not independently confirmed the accuracy of these methods. They are for reference only.Cell Viability Assay ^[1] Cell Line:22Rv1, LNCaP, VCaP cellsConcentration:0-1000 nMIncubation Time:4 daysResult:Inhibited cell growth with IC50 S OF 3.7, 10.3, 4.6 Nm for 22Rv1, LNCaP, VCaP cells, respectively.						
In Vivo	CBPD-268 (0.3, 1, 3, 10, 30 mg/kg; p.o.; once) induces depletion of both CBP and p300 proteins in tumor tissues with a single oral administration at 0.3-3 mg/kg ^[1] . CBPD-268 (1, 3 mg/kg; p.o.; twice a week for 1 mg/kg or 3 mg/kg weekly for 4-weeks) shows antitumor activity ^[1] . Pharmacokinetic Parameters ^[1] .Species IV (mg/kg)T1/2 (h)V1/2(L/kg)CL (mL/min/kg)Cmax (ng/ml)AUC(h*ng/mL)F(%)Rats11.94.934.631.3220.6936.967							

Mice	1	3.4	1.6	6.0	3	3.1	724.7	4190.4	60
MCE has not in	ndepender	itly confirme	d the accur	acy of these	methods. T	hey are for r	eference only	/.	
Animal Model	mal Model: male CB17 SCID mice (VCaP xenograft tumor) ^[1]								
Dosage:	0.3, 1, 3, 10, 30 mg/kg								
Administratio	in: P.o.; once								
Result:		Induced depletion of both CBP and p300 proteins in the VCaP tumor tissue in a dose- dependent manner.							
Animal Model	:	male	CB17 SCID r	mice (VCaP	xenograft tu	mor model)	[1]		
Dosage:	Dosage: 1, 3 mg/kg								
Administration: P.o.; twice a week for 1 mg/kg or 3 mg/kg weekly for 4-weeks									
Result:	Inhibited tumor growth and shows little effect on animal body weight.								
				. [1]					
Animal Model	del: female BALB/c mice ^[1]								
Dosage:		3, 10, 30 mg/kg							
Administratio	n:	P.o.; twice weekly for 5-6 weeks							
Result:		Induced no weight loss or other signs of toxicity at both 3 and 10 mg/kg dose-levels in both male and female mice.							
Animal Model	:	Female Sprague–Dawley (SD) rats ^[1]							
Dosage:		1-10 mg/kg							
Administratio	n:	P.o.; twice a week for 5 weeks							
Result:	It: Did not cause animal body weight loss during the entire experiment and did not induce any signs of toxicity during the entire experiment.						nduce		

REFERENCES

[1]. Chen Z, et al. Discovery of CBPD-268 as an Exceptionally Potent and Orally Efficacious CBP/p300 PROTAC Degrader Capable of Achieving Tumor Regression. J Med Chem. 2024 Apr 11;67(7):5275-5304.

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

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