## SHR5428

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MedChemExpress

Cat. No.:	HY-155787	
Molecular Formula:	$C_{22}H_{23}F_{3}N_{5}O_{2}P$	ſ
Molecular Weight:	477.42	
Target:	CDK	
Pathway:	Cell Cycle/DNA Damage	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

## Product Data Sheet

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BIOLOGICAL ACTIV					
Description	SHR5428 is a potent, orally a	ctive, selective and noncovale ts triple negative breast cance		ghly potent CDK7 enzymatic activity B-468 cell (IC <sub>50</sub> =6.6 nM) <sup>[1]</sup> .	у (
IC <sub>50</sub> & Target	CDK7 0.005 μΜ (IC <sub>50</sub> )	CDK12 1.11 μΜ (IC <sub>50</sub> )	CDK4 3.87 μΜ (IC <sub>50</sub> )	CDK6 5.89 μΜ (IC <sub>50</sub> )	
	СDК9 8.30 µМ (IC <sub>50</sub> )	CDK2 8.99 μΜ (IC <sub>50</sub> )	CDK1 >100 μM (IC <sub>50</sub> )		
In Vivo	SHR5428 (2 mg/kg, PO, once) <sup>[1]</sup> .	ce a day for 21 days) shows dc displays favorable pharmacol of SHR5428 in mouse, rat and	kinetic properties in differe	th inhibition <sup>[1]</sup> . nt species such as mouse, rat and d	og
		Mouse (2 mg/kg)	Rat (2 mg/kg)	Dog (2 mg/kg)	
	C <sub>max</sub> (ng/mL)	116	120	543	
	AUC (ng/mL⊠h)	139	556	4101	
	t <sub>1/2</sub> (h)	0.7	2.6	4.9	
	Bioavailability F%	32%	44%		
	92%				
	MCE has not independently c	onfirmed the accuracy of thes	e methods. They are for ref	erence only.	
	Animal Model:	HCC70 cell line derived xend	ograft NDG mouse model <sup>[1]</sup>		
	Dosage:	3, 10, 30 mg/kg			

Administration:	PO, once a day for 21 days
Result:	Showed dose-dependent tumor growth inhibition (3 mg/kg, TGI = 39%; 10 mg/kg, TG 61%; 30 mg/kg, TGI = 83%).

## REFERENCES

[1]. Jia M, et al. Discovery of SHR5428 as a selective and noncovalent inhibitor of CDK7. Bioorg Med Chem Lett. 2023 Sep 1;93:129429.

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

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