## CDK2/MDM2-IN-1

MedChemExpress

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Cat. No.:	HY-163357	
Molecular Formula:	$C_{26}H_{33}N_5O_4$	
Molecular Weight:	479.57	.0
Target:	CDK; MDM-2/p53	
Pathway:	Cell Cycle/DNA Damage; Apoptosis	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Product Data Sheet

BIOLOGICAL ACTIVITY				
Description	CDK2/MDM2-IN-1 (III-13) is a dual inhibitor of CDK2/MDM2 with an IC <sub>50</sub> value of 2.60 nM for CDK2. CDK2/MDM2-IN-1 has antitumor activity <sup>[1]</sup> .			
In Vitro	CDK2/ MDM2-IN-1 (100, 200 nM, 4 h) inhibits the proliferation of tumor cells through CDK2/p-Rb and MDM2/p53 pathways <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[1]</sup>			
	Cell Line:	HCT116, OVCAR3		
	Concentration:	100, 200 nM		
	Incubation Time:	4 h		
	Result:	Reduced the expression of p-Rb, downstream of CDK2. Inhibited MDM2 protein expression and elevated p53 expression.		
In Vivo	CDK2/MDM2-IN-1 (25, 50 mg/kg, intraperitoneal injection for 14 days) can significantly inhibit the proliferation of colon tumor cells in mice and does not affect the body weight of mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	A nude mouse model of HCT116 transplanted tumor $^{[1]}$		
	Dosage:	25, 50 mg/kg		
	Administration:	i.p. for 14 days		
	Result:	Reduced tumor volume and weight.		

## REFERENCES

[1]. Liu Z, et al. Discovery of Novel Antitumor Small-Molecule Agent with Dual Action of CDK2/p-RB and MDM2/p53. Molecules. 2024 Feb 4;29(3):725.

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

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