CDK9-IN-18

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-147905 1804127-83-0 C ₂₇ H ₂₀ N ₈ O 472.5 CDK; Apoptosis Cell Cycle/DNA Damage; Apoptosis Please store the product under the recommended conditions in the Certificate of Analysis.	
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BIOLOGICAL ACTIV	CDK9-IN-18 is a potent CDK9	9 inhibitor. CDK9-IN-18 blocks the phosphorylation function of kinase CDK9. CDK9-IN-18 exhibits ty and low cellular activity. CDK9-IN-18 induces apoptosis.	
In Vitro	Serine 2 of the RNAPII CTD in CDK9-IN-18 (compound 12i) of apoptosis in HepG2 cells	independently confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	NH2 cells	
	Concentration:	0.1, 0.2, 0.5, 1.0 and 2.0 μM	
	Incubation Time:	3 hours	
	Result:	P-Ser2 level of RNAPII CTD decreased in a dose-dependent fashion.	
	Cell Cytotoxicity Assay ^[1]		
	Cell Line:	A375 (skin cancer), A549 (lung cancer), HepG2 (liver cancer) and MCF-7 (breast cancer)	
	Concentration:	2.0 μΜ	
	Incubation Time:	24 hours	
	Result:	Inhibited with IC $_{50}$ values of 0.10, 0.53, 0.07 and 0.10 μM for A375, A549, HepG2 and MCF-7 cells, respectively.	
	Western Blot Analysis ^[1]		
	Cell Line:	A375 (skin cancer), A549 (lung cancer), HepG2 (liver cancer) and MCF-7 (breast cancer)	
	Concentration:	0.1, 0.2, 0.5, 1.0, 2.0 and 5.0 μM	
	Incubation Time:	24 hours	

Product Data Sheet

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Result:	The expression level of the specific apoptosisassociated protein (cleaved PARP) incl in a dose-dependent fashion.
Cell Cytotoxicity Assay ^[]]
Cell Line:	HepG2 cells
Concentration:	1.0 and 5.0 μM
Incubation Time:	24 hours
Result:	The percentage of cells in late apoptosis was recorded as 24.2% and 36.3% at 1.0 and M concentrations, respectively.

REFERENCES

[1]. Hu H, et al. Design, synthesis and biological evaluation of methylenehydrazine-1-carboxamide derivatives with (5-((4-(pyridin-3-yl)pyrimidin-2-yl)amino)-1H-indole scaffold: Novel potential CDK9 inhibitors. Bioorg Chem. 2020 Sep;102:104064.

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

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