Telomerase-IN-4

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-152076 2892295-10-0 C ₂₁ H ₁₈ N ₄ OS ₂ 406.52 Apoptosis Apoptosis Please store the product under the recommended conditions in the Certificate of Analysis.	
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Proteins

Product Data Sheet

BIOLOGICAL ACTI				
Description		tent telomerase inhibitor. Telomerase-IN-4 has antiproliferative activity and induces apoptosis $^{[1]}$.		
In Vitro	9.47 and 17.09 μg/mL fo Telomerase-IN-4 (9.467	pund 8e; 0.1-100 μg/mL; 72 h) has antitumor effects against both cancer cell lines with IC ₅₀ values of r MCF-7 and A549 cells, respectively ^[1] . μg/mL; 48 h) arrests cell cycle at the S phase and induces apoptosis in MCF-7 cells ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.		
	Cell Line:	MCF-7 and A549 cells		
	Concentration:	0.1, 1, 10, and 100 μg/mL		
	Incubation Time:	72 h		
	Result:	Inhibited cell growth in a dose-dependent manner.		
	Apoptosis Analysis ^[1]			
	Cell Line:	MCF-7 cells		
	Concentration:	9.467 μg/mL		
	Incubation Time:	48 h		
	Result:	Had an apoptosis percentage of 42.51%.		
	Cell Cycle Analysis ^[1]			
	Cell Line:	MCF-7 cells		
	Concentration:	9.467 μg/mL		
	Incubation Time:	48 h		
	Result:	Arrested cell cycle at the S phase of cell growth by more than 1.46 folds compared to that of the control.		

	Western Blot Analysis ^[1]	
	Cell Line:	MCF-7 cells
	Concentration:	9.467 μg/mL
	Incubation Time:	48 h
	Result:	Decreased in ALT and AST levels by 36.12 and 29.77%, respectively.
In Vivo	Telomerase-IN-4 (5 mg/ inhibits tumor growth ^{[1}	لاg; i.p.; three times per week for two weeks; Swiss albino female mice) has anticancer activity and].
In Vivo	inhibits tumor growth ^{[1}	
In Vivo	inhibits tumor growth ^{[1}].
In Vivo	inhibits tumor growth ^{[1} MCE has not independe]. Intly confirmed the accuracy of these methods. They are for reference only.
n Vivo	inhibits tumor growth ^{[1} MCE has not independe Animal Model:]. ently confirmed the accuracy of these methods. They are for reference only. Swiss albino female mice (25-30 g) ^[1]

REFERENCES

[1]. Pharmacophoric Features and Synthesis of Novel Analogues as Promising Telomerase Inhibitors with In Vitro and In Vivo Evaluations. J Med Chem. 2022 Dec 16.

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

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