HSP90-IN-18

В

Cat. No.:	HY-152027	
CAS No.:	2927442-45-1	<u>}</u> 0 _⊑
Molecular Formula:	$C_{25}H_{33}FO_{3}$	
Molecular Weight:	400.53	
Target:	HSP; Apoptosis	
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Apoptosis	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	1 1

Description	HSP90-IN-18 is an effective heat shock protein 90 (Hsp90) inhibitor. HSP90-IN-18 has effective Hsp90 inhibitory activity with an IC ₅₀ value of 0.39 μM. HSP90-IN-18 can be used for the research of viral infection, neurodegenerative disease, and inflammation ^[1] .		
IC ₅₀ & Target	IC50: 0.39 μM (Hsp90); 17.65 μM (MCF-7); 20.03 μM (SW480); ⊠40 μM (A549); 3.69 μM (HL60); 11.92 μM (SMMC-7721) ^[1]		
In Vitro	HSP90-IN-18 has effective Hsp90 inhibitory activity with an IC ₅₀ value of 0.39 μM ^[1] . HSP90-IN-18 (40, 8, 1.6, 0.32, 0.064 μM; 48 h) has antiproliferative activity against MCF-7, SW480, A549, HL60 and SMMC-7721 with IC ₅₀ values of 17.65 μM, 20.03 μM, ⊠40 μM, 3.69 μM and 11.92 μM, respectively ^[1] . HSP90-IN-18 (0, 1, 5, 10, 20 μM; 12-16 h) promotes HL-60 cell apoptosis by mitochondrial-mediated apoptosis pathway ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]		
	Cell Line:	HL-60, A549, SMMC7721, MCF-7 and SW480 cell lines	
	Concentration:	40, 8, 1.6, 0.32, 0.064 μM	
	Incubation Time:	48 h	
	Result:	Showed much better anti-proliferation activities in five cancer cell lines, especially against human leukocyte cell line.	
	Apoptosis Analysis ^[1]		
	Cell Line:	HL-60 cells	
	Concentration:	0, 1, 5, 10, 20 μΜ	
	Incubation Time:	12-16 h	
	Result:	Promoted the apoptosis of HL-60 cells.	
	Western Blot Analysis ^[1]		

Cell Line:

HL-60 cells

Product Data Sheet



	Concentration:	0, 1, 5, 10 μM		
	Incubation Time:	24 h		
	Result:	Showed the expression of Bcl2 was significantly reduced, while Bax was increased.		
In Vivo	HSP90-IN-18 (i.p.; 100 n acute toxicity in mice ^[1] MCE has not independe	HSP90-IN-18 (i.p.; 100 mg/kg; for 14 days) suppresses tumor growth in the H22 tumor-bearing mice model and revealed low acute toxicity in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	acute toxicity in mice ¹¹ MCE has not independe	acute toxicity in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Kunming Mice (female; 18–20g) ^[1]		
	Dosage:	100 mg/kg		
	Administration:	Intraperitoneal administration for 14 days		
	Result:	Showed normal behavior and feeding habits without any signs of toxicity and demonstrated low acute toxicity (LD ₅₀ > 500 mg/kg).		

REFERENCES

[1]. Meng Li, et al. Design, synthesis and biological evaluation of a new class of Hsp90 inhibitors vibsanin C derivatives. Eur J Med Chem. 2022 Dec 15;244:114844.

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

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