HDAC-IN-30

®

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-144292 2756809-34-2 C ₂₂ H ₂₃ N ₅ O ₃ 405.45 HDAC Cell Cycle/DNA Damage; Epigenetics Please store the product under the recommended conditions in the Certificate of Analysis.	С
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Description	HDAC-IN-30 is a novel multi-ta nM), HDAC6 (IC ₅₀ =42.7 nM), H	arget HDAC inhibitor, including H DAC8 (IC ₅₀ =131 nM). HDAC-IN-30	DAC1 (IC ₅₀ =13.4 nM),HDAC2 (IC ₅₀ exhibits potent antitumor efficae	5=28.0 nM), HDAC3 (IC ₅₀ =9.18 cy ^[1] .	
IC_{50} & Target	HDAC1 13.4 nM (IC ₅₀)	HDAC2 28.0 nM (IC ₅₀)	HDAC3 9.18 nM (IC ₅₀)	HDAC6 42.7 nM (IC ₅₀)	
	HDAC8 131 nM (IC ₅₀)				
In Vitro	HDAC-IN-30 (compound 8 h; C phosphorylation of p53 ^[1] .HD concentration-dependent ma HepG2 cells ^[1] . MCE has not independently co Western Blot Analysis ^[1]	0.5, 1, 2 μM; 48 hours) can effective AC-IN-30 (0, 1, 2.5, 5 mM; 48 hours Inner ^[1] .HDAC-IN-30 (0, 1, 2.5, 5 m onfirmed the accuracy of these m	ely activate the p53 pathway by j s; HepG2 cells) induces cell cycle M; 48 hours) possesses prominer ethods. They are for reference o	promoting the arrest at the G2 phase in a nt anticancer activity in nly.	
	Cell Line:	HepG2 cells			
	Concentration:	0.5, 1, 2 μM			
	Incubation Time:	24 hours			
	Result:	Could effectively activate the p	53 pathway by promoting the ph	osphorylation of p53	
	Cell Cycle Analysis ^[1]				
	Cell Line:	HepG2 cells			
	Concentration:	0, 1, 2.5, 5 μM			
	Incubation Time:	48 hours			
	Result:	Cells were arrested at the G2 ph	nase in a dose-dependent manne	er.	

Apoptosis Analysis^[1]

	Cell Line:	HepG2 cells
	Concentration:	0, 1, 2.5, 5 μΜ
	Incubation Time:	24 hours
	Result:	Possessed prominent anticancer activity in HepG2 cells.
Vivo	HDAC-IN-30 (12, 24 mg/l side effects even at high MCE has not independe	kg; intraperitoneal injection, every two days for 4 weeks) exhibits potent anticancer activity and a n dose (24 mg/kg) ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.
Vivo	HDAC-IN-30 (12, 24 mg/l side effects even at high MCE has not independe Animal Model:	kg; intraperitoneal injection, every two days for 4 weeks) exhibits potent anticancer activity and a dose (24 mg/kg) ^[1] . ntly confirmed the accuracy of these methods. They are for reference only. HepG2 xenograft mouse model ^[1]
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REFERENCES

[1]. Liu Q, et al. Discovery of phthalazino [1, 2-b]-quinazolinone derivatives as multi-target HDAC inhibitors for the treatment of hepatocellular carcinoma via activating the p53 signal pathway. Eur J Med Chem. 2022, 229:114058.

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

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