HDAC-IN-67

®

MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-157385 2821923-75-3 C ₃₀ H ₄₇ N ₅ O ₃ 525.73 HDAC; Apoptosis Cell Cycle/DNA Damage; Epigenetics; Apoptosis Please store the product under the recommended conditions in the Certificate of	С С С С С С С С С С С С С С С С С С С
	Analysis.	

BIOLOCICAL ACTIV				
BIOLOGICAL ACTIV				
Description	HDAC-IN-67 (compound 27f) is an HDAC inhibitor against HDAC1 and HDAC6, with IC ₅₀ values of 22 nM and 8 nM, respectively. HDAC-IN-67 inhibits cell proliferation and induces cell apoptosis. HDAC-IN-67 exhibits antitumor activity ^[1] .			
IC ₅₀ & Target	HDAC6 8 nM (IC ₅₀)	HDAC1 22 nM (IC ₅₀)		
In Vitro	HDAC-IN-67 exhibits antiproliferative activity in tumour cells K562, MV4-11, HEL, SU-DHL-2 and WSU-DLCL-2, wi of 4.42 μM, 0.79 μM, 2.43 μM, 1.05 μM, 1.43 μM, respectively ^[1] . HDAC-IN-67 induces WSU-DLCL-2 cells apoptosis (10 μM: 91.57%; 5 μM: 77.05%) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]			
	Cell Line:	K562, MV4-11, HEL, SU-DHL-2 and WSU-DLCL-2		
	Concentration:	5 μΜ		
	Incubation Time:	72 h		
	Result:	Exhibited antiproliferative activity.		
	Apoptosis Analysis ^[1]			
	Cell Line:	WSU-DLCL-2		
	Concentration:	5 μM and 10 μM		
	Incubation Time:	72 h		
	Result:	Induced WSU-DLCL-2 cells apoptosis in a dose-dependent manner (10 μM: 91.57%; 5 μM: 77.05%).		
In Vivo	HDAC-IN-67 (i.v.:50 mg/kg) rev HDAC-IN-67 (p.o.:10 mg/kg) ex HDAC-IN-67 (i.p.:50mg/kg onc	veals a clearance (CL) of 65.1 ml/(h·kg) and a half-life (T _{1/2}) of 0.361 h after i.v. ^[1] . khibits low oral bioavailability(F=3.15%) ^[1] . ee daily for 21 days) demonstrates a moderate in vivo antitumor potency with TGI of 31.5% ^[1] .		

Product Data Sheet

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Animal Model:	Female ICR mice/antitumour potency ^[1]
Dosage:	i.p., 50 mg/kg once a day for 21 days
Administration:	Intraperitoneal injection (i.p.)
Result:	Exhibited in vivo antitumorpotency with TGI of 31.5%.

REFERENCES

[1]. Gao Y,et al., Design, synthesis and biological evaluation of novel histone deacetylase (HDAC) inhibitors derived from β-elemene scaffold. J Enzyme Inhib Med Chem. 2023 Dec;38(1):2195991.

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

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