PROTAC HDAC6 degrader 1

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-152133 2785404-76-2 C ₃₇ H ₄₆ N ₆ O ₁₀ 734.8 PROTACs; HDAC; Apoptosis PROTAC; Cell Cycle/DNA Damage; Epigenetics; Apoptosis Please store the product under the recommended conditions in the Certificate of	он он он он он он
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Description	PROTAC HDAC6 degrader (Compound A6) is a potent and selective PROTAC HDAC6 degrader with a DC ₅₀ of 3.5 nM. PROTAC HDAC6 degrader shows promising antiproliferative activity via inducing apoptosis in myeloid leukemia cell lines ^[1] .			
IC ₅₀ & Target	HDAC6 3.5 nM (DC50)	HDAC6 4.86 nM (IC ₅₀)	HDAC1 0.1 μM (IC ₅₀)	
In Vitro	PROTAC HDAC6 degrader (Compound A6) (0.1-10 μM; 6 h) does not degrade HDAC1 but displays inhibitory activity toward HDAC1. PROTAC HDAC6 degrader demonstrates potent HDAC6 degradation as well as hyperacetylation of α-tubulin in U266 and HL-60 cells, confirming that the activity is not restricted to leukemia cell lines ^[1] . PROTAC HDAC6 degrader (0.5-50 μM) inhibits leukemia cells viability with log IC ₅₀ values of 1.2-1.7 μM ^[1] . PROTAC HDAC6 degrader (8-24 μM; 48 h) induces MOLM13 cell apoptosis and arrests cell cycle at sub-G1 phase ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]			
	Cell Line:	HL-60 cells		
	Concentration:	100 nM, 1 μM, 10 μM		
	Incubation Time:	6 h		
	Result:	Degraded HDAC6 but not HDAC hyperacetylation of histone H3.	1. Induced hyperacetylation of α -tubulin and caused	
	Cell Viability Assay ^[1]			
	Cell Line:	Acute myeloid leukemia or AML B-cell acute lymphoblastic leuk	. (HL-60, Kasumi, THP-1, HL-60, SKNO1, and MOLM13) and temia or B-ALL (REH and 697)	
	Concentration:	0.5-50 μΜ		
	Incubation Time:	72 h		
	Result:	Inhibited cell viability with log I	C ₅₀ values of 1.2-1.7 μM.	
	Apoptosis Analysis ^[1]			

Product Data Sheet



Cell Line:	MOLM13
Concentration:	8, 16 and 24 μM
Incubation Time:	48 h
Result:	Induced caspase 3/7-dependent apoptosis in dose-dependent fashion.
Cell Cycle Analysis ^[1]	
Cell Line:	MOLM13
Concentration:	8, 16 and 24 μM
Incubation Time:	48 h
Result:	Induced a dose-dependent increase in the sub-G1 fraction with a concomitant reductio of cell population in G2/M phase.

REFERENCES

[1]. Sinatra L, et al. Solid-Phase Synthesis of Cereblon-Recruiting Selective Histone Deacetylase 6 Degraders (HDAC6 PROTACs) with Antileukemic Activity. J Med Chem. 2022 Dec 22;65(24):16860-16878.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA