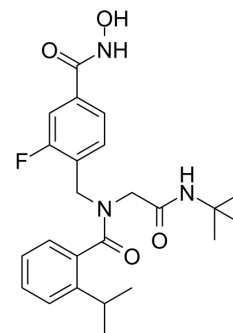


HDAC6-IN-14

Cat. No.:	HY-151896
CAS No.:	3023019-97-5
Molecular Formula:	C ₂₄ H ₃₀ FN ₃ O ₄
Molecular Weight:	443.51
Target:	HDAC
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HDAC6-IN-14 is a highly selective HDAC6 (HDAC) inhibitor with an IC ₅₀ of 42 nM. HDAC6-IN-14 displays >100-fold selectivity over HDAC1/HDAC2/HDAC3/HDAC4 ^[1] .			
IC ₅₀ & Target	HDAC6 42 nM (IC ₅₀)	HDAC1 8.01 μM (IC ₅₀)	HDAC2 4.48 μM (IC ₅₀)	HDAC3 8.35 μM (IC ₅₀)
	HDAC4 >10 μM (IC ₅₀)			
In Vitro	HDAC6-IN-14 (compound 10p; 1-5 μM; 48 h) treatment results in a significant apoptosis induction in HL60 cells ^[1] . HDAC6-IN-14 (compound 10p; 6-36 μM; 24 h) treatment induces acetylation of α-tubulin but has no effect on Ac-H3 levels even at concentrations of ≤36 μM in HL60 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Apoptosis Analysis ^[1]			
	Cell Line:		HL60 cells	
	Concentration:		1 μM and 5 μM	
	Incubation Time:		48 h	
	Result:		Resulted in a significant apoptosis induction.	
	Western Blot Analysis ^[1]			
	Cell Line:		HL60 cells	
	Concentration:		6 μM, 12 μM, 24 μM, 36 μM	
	Incubation Time:		24 h	
	Result:		Induced acetylation of α-tubulin but had no effect on Ac-H3 levels.	

REFERENCES

[1]. Nina Reßing, et al. Development of Fluorinated Peptoid-Based Histone Deacetylase (HDAC) Inhibitors for Therapy-Resistant Acute Leukemia. J Med Chem. 2022 Nov 24;65(22):15457-15472.

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

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