HD-TAC7

Cat. No.:	HY-146346		
CAS No.:	2978763-95-8		
Molecular Formula:	C ₃₃ H ₃₂ FN ₇ O ₇		
Molecular Weight:	657.65		
Target:	PROTACs; HDAC		
Pathway:	PROTAC; Cell Cycle/DNA Damage; Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (152.06 mM; Need ultrasonic)						
		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.5206 mL	7.6028 mL	15.2057 mL		
		5 mM	0.3041 mL	1.5206 mL	3.0411 mL		
		10 mM	0.1521 mL	0.7603 mL	1.5206 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.63 mg/mL (4.00 mM); Clear solution						

DIOLOGICAL ACTIVITY						
Description	HD-TAC7 is a potent PROTAC HDAC degrader with IC ₅₀ values of 3.6 μM, 4.2 μM and 1.1 μM for HDAC1, HDAC2 and HDAC3, respectively. HD-TAC7 can decreases NF-κB p65 in RAW 264.7 macrophages. HD-TAC7 can be used for the research of inflammatory diseases like asthma and chronic obstructive pulmonary disease (COPD) ^[1] .					
IC ₅₀ & Target	HDAC1 3.6 μΜ (IC ₅₀)	HDAC2 4.2 μΜ (IC ₅₀)	HDAC3 1.1 μM (IC ₅₀)			
In Vitro	HD-TAC7 (10 μM; 24 hours) induces an increase of H3K27 acetylation in RAW 264.7 macrophages ^[1] . HD-TAC7 (10 μM; 2-48 hours) induces HDAC3 degradation reaching the maximal effect at 6h and lasted at least 48h ^[1] . HD-TAC7 (1 and 10 μM; 24 hours) downregulates NF-κB p65 in LPS-treated RAW 264.7 macrophages ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					

Product Data Sheet



REFERENCES

[1]. Fangyuan Cao, et al. Induced protein degradation of histone deacetylases 3 (HDAC3) by proteolysis targeting chimera (PROTAC). Eur J Med Chem. 2020 Dec 15;208:112800.

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

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