MS8815

®

MedChemExpress

Cat. No.: CAS No.:	HY-148334 2855085-25-3	
Molecular Formula:	$C_{65}H_{87}N_9O_8S$	
Molecular Weight:	1154.51	
Target:	Histone Methyltransferase; PROTACs	Sucronness, and de
Pathway:	Epigenetics; PROTAC	
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	0.8662 mL	4.3308 mL	8.6617 mL	
		5 mM	0.1732 mL	0.8662 mL	1.7323 mL	
		10 mM	0.0866 mL	0.4331 mL	0.8662 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
In Vivo		1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3.25 mg/mL (2.82 mM); Clear solution				
		2. Add each solvent one by one: 50% PEG300 >> 50% saline Solubility: 2.5 mg/mL (2.17 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIV	
Description	MS8815 is a selective enhancer of zeste homolog 2 (EZH2) PROTAC degrader. MS8815 has inhibition activity for EZH2 with an IC ₅₀ value of 8.6 nM. MS8815 can be used for the research of triple-negative breast cancer (TNBC) ^[1] .
IC₅₀ & Target	IC50: 8.6 nM (EZH2); 62 nM (EZH1) ^[1] . DC50: 140 nM (EZH2 in MDA-MB-453 cells) ^[1]
In Vitro	MS8815 shows potency in inhibiting the EZH2 and EZH1 methyltransferase activity with IC ₅₀ values of 8.6 nM and 62 nM, respectively ^[1] . MS8815 (0.1-1 μM) degrades EZH2 with a DC ₅₀ value of 140 nM in MDA-MB-453 cells ^[1] . MS8815 (1 μM; 48 h) induces robust EZH2 degradation in a concentration-, time-, and proteasome-dependent manner in TNBC cells ^[1] .

Product Data Sheet

MCE has not independe	ntly confirmed the accuracy of these methods. They are for reference only.	
Western Blot Analysis ^[1]		
Cell Line:	MDA-MB-453 cells and BT549 cells	
Concentration:	0.3, 3 μΜ; 1μΜ	
Incubation Time:	48 h; 24 h	
Result:	Induced nearly complete degradation of EZH2 and exhibited the most robust degradation at 0.3 μM. Induced EZH2 degradation in a time-and concentration-dependent manner. Induced EZH2 degradation through the UPS.	
Cell Proliferation Assay ^l	1]	
Cell Line:	BT549, MDA-MB-468, SUM159 and MDA-MB-453 cells	
Concentration:	0.1-10 μΜ	
Incubation Time:	5 days	
Result:	Showed superior cellular growth inhibition activity in a panel of TNBC cells.	

REFERENCES

[1]. Brandon Dale, et al. Targeting Triple-Negative Breast Cancer by a Novel Proteolysis Targeting Chimera Degrader of Enhancer of Zeste Homolog 2. ACS Pharmacol Transl Sci. 2022 Jun 24;5(7):491-507.

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

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