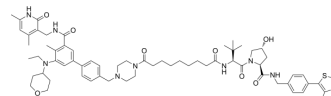


MS8815

Cat. No.:	HY-148334
CAS No.:	2855085-25-3
Molecular Formula:	C ₆₅ H ₈₇ N ₉ O ₈ S
Molecular Weight:	1154.51
Target:	Histone Methyltransferase; PROTACs
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

In Vitro	DMSO : 120 mg/mL (103.94 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg
				5 mg
				10 mg
				10 mM
Please refer to the solubility information to select the appropriate 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			

BIOLOGICAL ACTIVITY

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] .
IC ₅₀ & Target	IC ₅₀ : 8.6 nM (EZH2); 62 nM (EZH1) ^[1] . DC ₅₀ : 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] . MS8815 (0.1-10 μM; 5 days) effectively suppresses the cell growth in multiple TNBC cell lines and primary patient TNBC cells ^[1] . MCE has not independently 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 μ M; 1 μ M
Incubation Time:	48 h; 24 h
Result:	Induced nearly complete degradation of EZH2 and exhibited the most robust degradation at 0.3 μ M. Induced EZH2 degradation in a time-and concentration-dependent manner. Induced EZH2 degradation through the UPS.

Cell Proliferation Assay^[1]

Cell Line:	BT549, MDA-MB-468, SUM159 and MDA-MB-453 cells
Concentration:	0.1-10 μ M
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 Degradator 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.

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