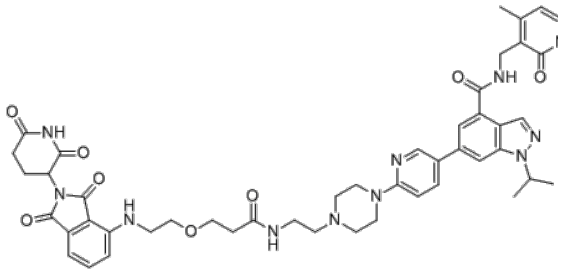
ProbeChem®
Expedite Your Scientific Research

WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	MS177
Cat. No.	:	PC-72286
CAS No.	:	2225938-86-1
Molecular Formula	:	$C_{48}H_{55}N_{11}O_8$
Molecular Weight	:	914.037
Target	:	PROTAC
Solubility	:	10 mM in DMSO



Biological Activity

MS177 (MS-177) is a potent and selective **EZH2** degarder (**PROTAC**) based on EZH2 inhibitor C24 with CRBN ligand pomalidomide with DC50 of 0.2 uM in EOL-1 cells.
MS177 effectively degraded cellular EZH2-PRC2, suppressed global H3K27me3 in leukaemia cells.
MS177 exhibited half-maximal degradation concentration (DC50) values of 0.2 ± 0.1 μM and 1.5 ± 0.2 μM, and maximum degradation (Dmax) values of 82% and 68%, respectively, in EOL-1 and MV4;11 cells.
MS177 efficiently suppresses EZH2-PRC2 functions, also efficiently induces Myc degradation in cancer cells, suppresses EZH2-PRC2 functions.
MS177 efficiently induces leukaemia cell growth inhibition, apoptosis and cell cycle progression arrest, which is more effective than EZH2 inhibitors. MS177 (i.p. injection, 50-100 mg/kg) represses AML growth without apparent toxicity in PDX models.

References

Jun Wang, et al. ***Nat Cell Biol.*** 2022 Feb 24. doi: 10.1038/s41556-022-00850-x.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com