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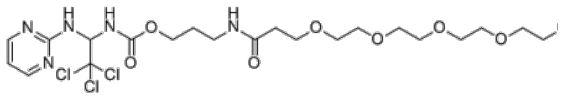
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	CP5V
Cat. No.	:	PC-20565
CAS No.	:	2509359-75-3
Molecular Formula	:	$C_{46}H_{66}Cl_3N_9O_{12}S$
Molecular Weight	:	1075.49
Target	:	PROTAC
Solubility	:	10 mM in DMSO



CAS: 2509359-75-3

Biological Activity

CP5V (apcin-A-PEG5-VHL Ligand 1) is an efficient, selective Cdc20 PROTAC with DC50 of 1.6 uM in both MCF7 and MDA-MB-231 cells, induces mitotic inhibition and suppresses cancer cell proliferation.
CP5V-induced degradation of Cdc20 is mediated through the ubiquitin-proteasome pathway.
CP5V-induced Cdc20 degradation is sensitive to neddylation inhibitor MLN4924.
CP5V efficiently binds onto Cdc20 (SOR KD=11.2 uM) to help stabilize Cdc20-PROTACS-VHL-ElonginC-ElonginB complex.
CP5V significantly inhibits mitotic progression and induces breast cancer cell death.
CP5V restores Taxol-induced cytotoxic response in Taxol-resistant cells.
CP5V is a potent inhibitor that suppresses breast tumor progression with no toxicity in 4T1 xenograft model.

References

Junlong Jack Chi, et al. EBioMedicine. 2019 Nov;49:40-54.

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