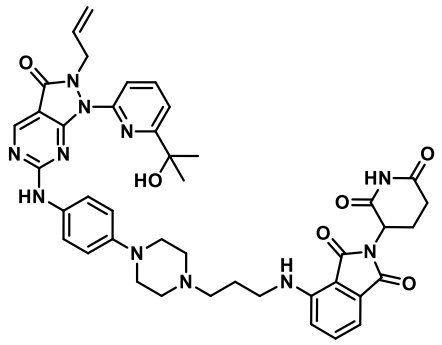
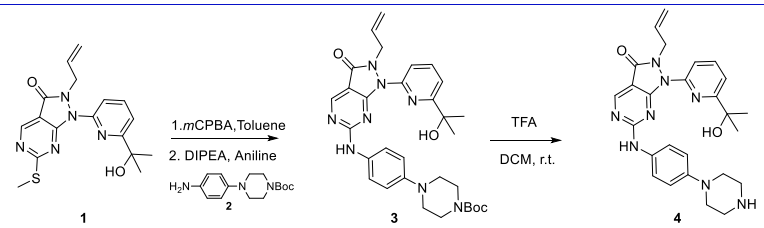
ZNL-02-096



Chemical Formula: $C_{42}H_{45}N_{11}O_6$
Molecular Weight: 799.89

Category	Parameter	Description
Compound	Name	ZNL-02-096
	Citation	Cell Chem Biol. 2019 (in press) https://doi.org/10.1016/j.chembiol.2019.10.013
	Chemical descriptors	O=C(NC1CCN(S(C2=CC=CC(NC(/C=C/CN(C)C)=O)] =C2)(=O)=O)CC1)C3=NNC=C3NC(C4=C(Cl)C=C(Cl)C=C4Cl)=O
	Chemical name	4-((3-(4-(4-((2-allyl-1-(6-(2-hydroxypropan-2-yl)pyridin-2-yl)-3-oxo-2,3-dihydro-1H-pyrazolo[3,4-d]pyrimidin-6-yl)amino)phenyl)piperazin-1-yl)propyl)amino)-2-(2,6-dioxopiperidin-3-yl)isoindoline-1,3-dione
	Entries in chemical databases	N/A
	Availability	N/A
	Papers that use the compounds	N/A
	Additional comments	Negative control ZNL-02-178 also available
In vitro profiling	Target (potency)	WEE1: 3.58 nM (Lantha screen)
	Target (potency)	PLK1: 102 nM (ZLYTE)
	Selectivity	KiNativ at 1 µM (WEE1, PLK1, JAK3 > 90%)
	Potential reactivity	Pomalidomide motif
	SAR	Described in this paper
	Mechanism of inhibition	Proteasome degradation
	Structure of target-probe complex	Docking only
	Additional comments	Negative control ZNL-02-178 was methylated on glutarimide ring based on ZNL-02-096
Cellular profiling	Validation of cellular target	Target degradation and rescue
	Validation of cellular specificity	Proteomics in MOLT4
	Additional comments	
Pharmacodynamics		N/A
Pharmacokinetics		N/A



Synthetic scheme