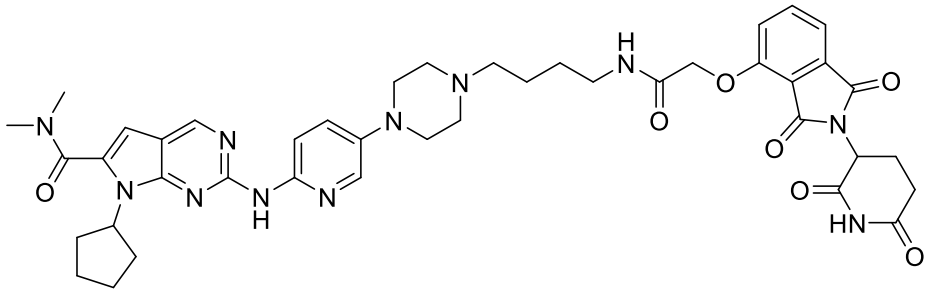
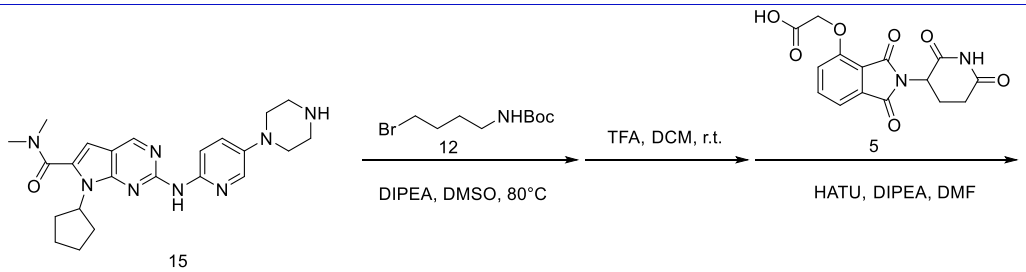
BSJ-04-132

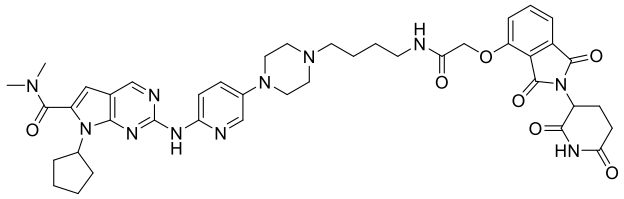


Chemical Formula: $C_{42}H_{49}N_{11}O_7$
Molecular Weight: 819.92

Category	Parameter	Description
Compound	Name	BSJ-04-132
	Citation	Angew. Chem. Int. Edit., 2019, 58, 6321-6326. (https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201901336)
	Chemical descriptors	CN(C)C(=O)C1=CC2=CN=C(NC3=CC=C(C=N3)N3CCN(CCCCN C(=O)COC4=CC=CC5=C4C(=O)N(C4CCC(=O)NC4=O)C5=O)CC3)N=C2N1C1CCCC1
	Chemical name	7-cyclopentyl-2-((5-(4-(4-(2-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisoindolin-4-yl)oxy)acetamido)butyl)piperazin-1-yl)pyridin-2-yl)amino)-N,N-dimethyl-7H-pyrrolo[2,3-d]pyrimidine-6-carboxamide
	Entries in chemical databases	
	Availability	
	Papers that use the compounds	
	Additional comments	
In vitro profiling	Target (potency)	CDK4/cyclin D1: 50.6 nM
	Target (potency)	CDK6/cyclin D1: 30 nM
	Selectivity	
	Potential reactivity	
	SAR	
	Mechanism of inhibition	Protein degradation by recruiting Cereblon
	Structure of target-probe complex	
	Additional comments	
Cellular profiling	Validation of cellular target	Dose-dependent degradation of CDK4 with maximum degradation at 0.5uM in Jurkat cells.
	Validation of cellular specificity	Selective degradation of CDK4 in Molt4 cells by proteomics analysis at 5h with 250 nM treatment.
	Additional comments	
Pharmacodynamics		
Pharmacokinetics		

Synthetic scheme





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