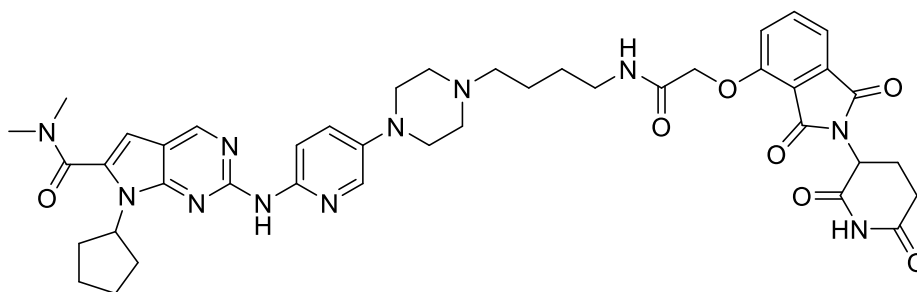
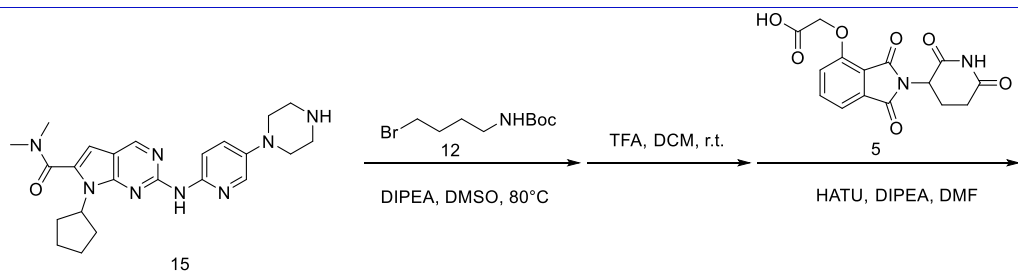


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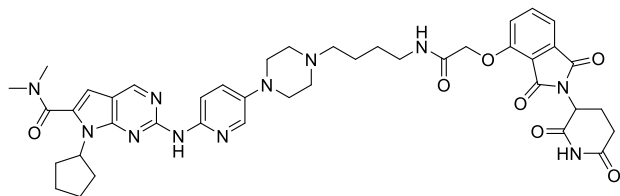


Chemical Formula: C₄₂H₄₉N₁₁O₇
Molecular Weight: 819.92

| 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-dioxoisindolin-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 | | |
| <i>In vitro</i> profiling | Papers that use the compounds | | |
| | Additional comments | | |
| | 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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