

BSJ-03-123

## Chemical Properties

CAS No. : 2361493-16-3

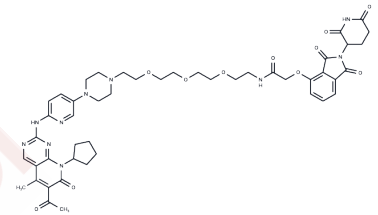
Formula: C47H56N10O11

Molecular Weight: 937.01

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	BSJ-03-123 is a potent, CDK6-selective small-molecule degrader.
Targets(IC50)	CDK,PROTACs
In vitro	BSJ-03-123 induced rapid, dose-dependent ternary complex formation with CDK6 and CRBN, but not with CDK4 and CRBN. Ternary complex formation was prevented by blocking binding sites on CDK6 or CRBN via pretreatment with palbo or lenalidomide.
Cell Research	4x10 <sup>6</sup> MV4-11 CRBN <sup>-/-</sup> cells were treated for 3 h with 20 μM palbociclib, BSJ-03-123 or vehicle. 1x10 <sup>6</sup> cells were spun down at 500 x g for 5 min, and the supernatant removed. Pellets were incubated at 46, 49, 52 or 55°C for 3 min followed by 3 min incubation at room temperature. 30 μl of lysis buffer (20 mM Tris-HCl pH 8.0, 120 mM NaCl, 0.5% NP-40, protease inhibitors) were added and cells lysed by 3 rounds of snap freezing and thawing. Denatured proteins were removed by 20 min centrifugation at 14.000 x g at 4°C and supernatants analyzed by Western Blotting.

## Solubility Information

Solubility	DMSO: 115 mg/mL (122.73 mM),Sonication is recommended. H2O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (4.27 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.0672 mL	5.3361 mL	10.6722 mL
5 mM	0.2134 mL	1.0672 mL	2.1344 mL
10 mM	0.1067 mL	0.5336 mL	1.0672 mL
50 mM	0.0213 mL	0.1067 mL	0.2134 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Brand M, et al. Homolog-Selective Degradation as a Strategy to Probe the Function of CDK6 in AML. Cell Chem Biol. 2019 Feb 21;26(2):300-306.e9.

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