Product Datasheet

Technical Data

Formula	$C_{47}H_{56}N_{10}O_{11}$					
Molecular Weight	937.01	**CAS No.**	2361493-16-3			
Solubility (25°C)*	In vitro	DMSO	100 mg/mL (106.72 mM)			
		Water	<1 mg/mL			
		Ethanol	<1 mg/mL			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.
		Injection	Clear solution	5%DMSO [1] → 40%PEG300 [2] → 5%Tween80 [3] → 50%ddH2O Validated by Capsid Bio labs. Should you need adjustments to this formulation, contact our sales team for custom testing.	2.500mg/ml (2.67mM)	Taking the 1 mL working solution as an example, add 50 μL of 50 mg/ml clarified DMSO stock solution to 400 μL of PEG300, mix evenly to clarify it; add 50 μL of Tween80 to the above system, mix evenly to clarify; then continue to add 500 μL of ddH2O to adjust the volume to 1 mL. The mixed solution should be used immediately for optimal results.
			Clear solution	5% DMSO [1] → 95% Corn oil Validated by Capsid Bio labs. Should you need adjustments to this formulation, contact our sales team for custom testing.	0.500mg/ml (0.53mM)	Taking the 1 mL working solution as an example, add 50 μL of 10 mg/ml clear DMSO stock solution to 950 μL of corn oil and mix evenly. The mixed solution should be used immediately for optimal results.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume / Mass	1 mg	5 mg	10 mg
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

Biological Activity

Description	BSJ-03-123 is a phthalimide-based degrader of **cyclin-dependent kinase 6 (CDK6)**. (PROTAC)
Targets	CDK6 [1]
In vitro	BSJ-03-123 is a phthalimide-based degrader that exploits protein-interface determinants to achieve proteome-wide selectivity for the degradation of cyclin-dependent kinase 6 (CDK6). Pharmacologic CDK6 degradation targets a selective dependency of acute myeloid leukemia cells, and transcriptomics and phosphoproteomics profiling of acute degradation of CDK6 enabled dynamic mapping of its immediate role in coordinating signaling and transcription.[1]

Protocol (from reference)

Cell Assay:[1]

- **Cell lines**
  MV4–11, THP-1, MOLM13, P31/FUJ, MOLT4, NCI-H358, HT29, HEK293T and Hs578T cells
- **Concentrations**
  50 nM, 100 nM, 200 nM, 500 nM, 1000 nM
- **Incubation Time**
  2 h, 4 h, 24 h
- **Method**
  For cell cycle measurement, 10^6 cells per well are seeded in 24-well plates in triplicates. After 24 h of BSJ-03-123 treatment, cells are harvested by centrifugation at 500g for 5 min and washed in 1 ml cold PBS. Cells are spun down again, resuspended in 200 µl PBS and fixed by addition of 800 µl 70% EtOH and incubation for 20 min at −20°C.

References

https://pubmed.ncbi.nlm.nih.gov/30595531/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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