Product Datasheet

Technical Data

Formula	$C_{22}H_{21}ClN_4O_4$					
Molecular Weight	440.88	**CAS No.**	1010100-07-8			
Solubility (25°C)*	In vitro	DMSO	88 mg/mL (199.6 mM)			
		Water	Insoluble			
		Ethanol	Insoluble			
	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.	1.100mg/ml (2.50mM)	Taking the 1 mL working solution as an example, add 50 μL of 22 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.	0.550mg/ml (1.25mM)	Taking the 1 mL working solution as an example, add 50 μL of 11 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	2.2682 mL	11.3410 mL	22.6819 mL
5 mM	0.4536 mL	2.2682 mL	4.5364 mL
10 mM	0.2268 mL	1.1341 mL	2.2682 mL
50 mM	0.0454 mL	0.2268 mL	0.4536 mL

Biological Activity

Description	CC-885 is a novel **cereblon (CRBN)** modulator. This compound selectively promotes CRBN- and p97-dependent PLK1 ubiquitination and degradation.
Targets	CRBN [1]
In vitro	CC-885 selectively promotes CRBN- and p97-dependent PLK1 ubiquitination and degradation in non-small-cell lung cancer (NSCLC) cells.[1]
In vivo	This compound can promote PLK1 ubiquitination and degradation and synergistically inhibit NSCLC with volasertib in NSCLC model BALB/cA nude mice.[1]

Protocol (from reference)

Cell Assay:[1]

- **Cell lines**
  A549, NCI-H1299
- **Concentrations**
  50 nM, 1 mM
- **Incubation Time**
  24 h, 48 h
- **Method**
  A549 and NCI-H1299 are treated with 1 mM CC-885 for 24 h and subjected to immunoblot analysis.

Animal Study:[1]

- **Animal Models**
  NSCLC model BALB/cA nude mice inoculated with A549 cells
- **Dosages**
  20 mg/kg
- **Administration**
  i.p.

References

https://pubmed.ncbi.nlm.nih.gov/32728610/

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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