UNC6852

Catalog No.C14392 Batch:C1439203

Product Datasheet

Technical Data

Formula	$C_{43}H_{48}N_{10}O_6S$					
Molecular Weight	832.97	**CAS No.**	2688842-08-0			
Solubility (25°C)*	In vitro	DMSO	100 mg/mL (120.05 mM)			
		Ethanol	100 mg/mL (120.05 mM)			
		Water	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.

* <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

Biological Activity

Description	UNC6852 is a selective degrader that targets **polycomb repressive complex 2 (PRC2)** with IC50 of 247 nM for EED. UNC6852 is based on PROTAC and contains an EED226-derived ligand and a ligand for VHL.
Targets	EED [1] (Cell-free assay) 247 nM
In vitro	UNC6852 contains an EED226-derived ligand and a ligand for VHL which bind to the WD40 aromatic cage of EED and CRL2VHL, respectively, to induce proteasomal degradation of PRC2 components, EED, EZH2, and SUZ12. Degradation of PRC2 with this compound blocks the histone methyltransferase activity of EZH2, decreasing H3K27me3 levels in HeLa cells and diffuse large B cell lymphoma (DLBCL) cells containing EZH2 gain-of-function mutations. This chemical degrades both wild-type and mutant EZH2, and additionally displays anti-proliferative effects in this cancer model system.[1]

Protocol (from reference)

Cell Assay:[1]

- **Cell lines**
  Hela cells
- **Concentrations**
  0.1 μM, 0.5 μM, 1 μM, 3 μM, 5 μM, 10 μM, 20 μM, 30 μM
- **Incubation Time**
  2 h, 4 h, 8 h, 10 h, 16 h, 20 h, 24 h, 48 h, 72 h
- **Method**
  Jess Protein Simple is used according to product guideline instructions. HeLa cells are treated with bivalent degraders UNC6852 at 5 μM for 4 hrs, 24 hrs, and 48 hrs, and cell lysates are generated using a modified RIPA buffer. Cell lysates are used at 1 mg/mL. The primary antibodies used are: anti-EED, anti-EZH2. The secondary antibodies used are: anti-sheep HRP secondary antibody, anti-rabbit secondary IR antibody.

References

https://pubmed.ncbi.nlm.nih.gov/31831267/

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.

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