Product data sheet



MedKoo Cat#: 533552				
Name: UNC6852				
CAS#: 2688842-08-0				
Chemical Formula: $C_{43}H_{48}N_{10}O_6S$				
Exact Mass: 832.3479				
Molecular Weight: 832.98				
Product supplied as:	Powder			
Purity (by HPLC):	$\geq 98\%$			
Shipping conditions	Ambient temperature			
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years.			
	In solvent: -80°C 3 months; -20°C 2 weeks.			



1. Product description:

UNC6852 is a novel EED-targeted bivalent chemical degrader, selectively degrading EED, EZH2, and SUZ12 via recruitment of VHL, resulting in loss of PRC2 catalytic activity and decreased H3K27me3 levels.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	100	120.5

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	1.20 mL	6.00 mL	12.01 mL
5 mM	0.24 mL	1.20 mL	2.40 mL
10 mM	0.12 mL	0.60 mL	1.20 mL
50 mM	0.02 mL	0.12 mL	0.24 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

 Potjewyd F, Turner AW, Beri J, Rectenwald JM, Norris-Drouin JL, Cholensky SH, Margolis DM, Pearce KH, Herring LE, James LI. Degradation of Polycomb Repressive Complex 2 with an EED-Targeted Bivalent Chemical Degrader. Cell Chem Biol. 2020 Jan 16;27(1):47-56.e15. doi: 10.1016/j.chembiol.2019.11.006. Epub 2019 Dec 9. PMID: 31831267; PMCID: PMC7004250.

In vivo study

 Raman R, Fallatah W, Al Qaryoute A, Dhinoja S, Jagadeeswaran P. Knockdown screening of chromatin binding and regulatory proteins in zebrafish identified Suz12b as a regulator of tfpia and an antithrombotic drug target. Sci Rep. 2021 Jul 27;11(1):15238. doi: 10.1038/s41598-021-94715-2. PMID: 34315984; PMCID: PMC8316476.

7. Bioactivity

Biological target:

UNC6852 is a selective polycomb repressive complex 2 (PRC2) degrader based on PROTAC and contains an EED (embryonic ectoderm development) ligand and a von Hippel-Lindau ligand, with an IC50 of 247 nM for EED.

In vitro activity

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Degradation of PRC2 with UNC6852 blocks the histone methyltransferase activity of EZH2, decreasing H3K27me3 levels in HeLa cells and diffuse large B cell lymphoma cells containing EZH2 gain-of-function mutations. UNC6852 degrades both wild-type and mutant EZH2, and additionally displays anti-proliferative effects in this cancer model system.

Reference: Cell Chem Biol. 2020 Jan 16;27(1):47-56.e15. https://pubmed.ncbi.nlm.nih.gov/31831267/

In vivo activity

This study treated zebrafish larvae and adults with UNC6852, which proteolytically degrades polycomb repressor complex 2, and it was observed prolongation of time to occlude the caudal vein after laser injury and increased tfpia mRNA levels in larvae and adults, respectively. This study provides the basis for testing whether UNC6852 could be used as an antithrombotic drug, which could be used to study the regulation of other plasma proteins.

Reference: Sci Rep. 2021 Jul 27;11(1):15238. https://pubmed.ncbi.nlm.nih.gov/34315984/

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.