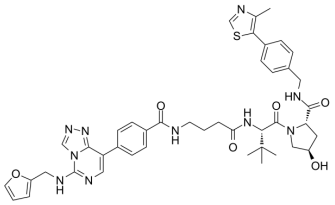
UNC6852

Cat. No.:	HY-130708
CAS No.:	2688842-08-0
Molecular Formula:	$C_{43}H_{48}N_{10}O_6S$
Molecular Weight:	832.97
Target:	Histone Methyltransferase; PROTACs
Pathway:	Epigenetics; PROTAC
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (120.05 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.2005 mL	6.0026 mL	12.0052 mL
	5 mM	0.2401 mL	1.2005 mL	2.4010 mL
	10 mM	0.1201 mL	0.6003 mL	1.2005 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 5 mg/mL (6.00 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 5 mg/mL (6.00 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (6.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

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 IC_{50} of 247 nM for EED[1].

IC_{50} & Target

IC50: 247 nM (EED)[1]

In Vitro

UNC6852 mediates PRC2 degradation[1].
UNC6852 displays no cellular toxicity at concentrations up to 30 μM for HeLa Cells[1].

UNC6852 (10 μM; 1-72 hours) results in a decrease in the levels of both EED and EZH2[1].
UNC6852 facilitates PRC2 degradation via VHL recruitment[1].
UNC6852 selectively degrades EED and EZH2[1].
UNC6852 reduces H3K27me3 levels and DLBCL cell proliferation[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	DLBCL Cells
Concentration:	3 μM
Incubation Time:	0 -10 days
Result:	Exhibited anti-proliferative effects.

Western Blot Analysis[1]

Cell Line:	HeLa Cells
Concentration:	10 μM
Incubation Time:	1 hours, 4 hours, 8 hours, 10 hours, 16 hours, 20 hours, 24 hours, 48 hours, 72 hours
Result:	Resulted in a decrease in the levels of both EED and EZH2.

CUSTOMER VALIDATION

- Sci Rep. 2021 Jul 27;11(1):15238.

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REFERENCES

[1]. Potjewyd F, et al. Degradation of Polycomb Repressive Complex 2 with an EED-Targeted Bivalent Chemical Degrader. Cell Chem Biol. 2020 Jan 16;27(1):47-56.e15.

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