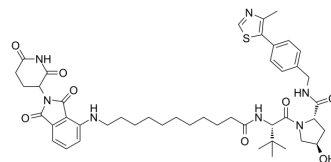


TD-165

Cat. No.:	HY-130714
CAS No.:	2305936-56-3
Molecular Formula:	C ₄₆ H ₅₉ N ₇ O ₈ S
Molecular Weight:	870.07
Target:	PROTACS
Pathway:	PROTAC
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (57.47 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.1493 mL	5.7467 mL	11.4933 mL
	5 mM	0.2299 mL	1.1493 mL	2.2987 mL
	10 mM	0.1149 mL	0.5747 mL	1.1493 mL

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

BIOLOGICAL ACTIVITY

Description

TD-165 is a PROTAC-based cereblon (CRBN) degrader. TD-165 comprises a cereblon (CRBN) ligand binding group, a linker and an von Hippel-Landau (VHL) binding group^[1].

IC₅₀ & Target

Cereblon
20.4 nM (DC₅₀)

In Vitro

TD-165 (0-100 nM; 24 hours) shows 50% degradation concentration (DC₅₀) and maximum degradation (D_{max}) value of 20.4 nM and 99.6%, respectively^[1].
TD-165 (0.1-10 μM; 24 hours) leads to a concentration-dependent decrease in the level of CRBN proteins in HEK293T cells^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Cell Viability Assay^[1]

Cell Line:	HEK293T cells
Concentration:	0-100 nM
Incubation Time:	24 hours

Result:	Exhibited an DC ₅₀ value of 20.4 nM.
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Western Blot Analysis^[1]

Cell Line:	HEK293T cells
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Concentration:	0.1, 1, and 10 μM
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Incubation Time:	24 hours
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Result:	Decreased the level of CRBN protein.
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REFERENCES

[1]. Kim K, et al. Disordered region of cereblon is required for efficient degradation by proteolysis-targeting chimera. *Sci Rep.* 2019 Dec 23;9(1):19654.

Caution: Product has not been fully validated for medical applications. For research use only.

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