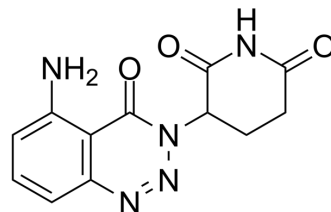


TD-106

Cat. No.:	HY-114406		
CAS No.:	2250288-69-6		
Molecular Formula:	C ₁₂ H ₁₁ N ₅ O ₃		
Molecular Weight:	273.25		
Target:	Ligands for E3 Ligase		
Pathway:	PROTAC		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 125 mg/mL (457.46 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		3.6597 mL	18.2983 mL	36.5965 mL
	5 mM		0.7319 mL	3.6597 mL	7.3193 mL
	10 mM		0.3660 mL	1.8298 mL	3.6597 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (9.15 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (9.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

TD-106 is a cereblon (CRBN) modulator, which can be used for targeted protein degradation. BRD4 PROTACs with TD-106 induce BRD4 degradation^[1].

IC₅₀ & Target

CRBN^[1]

In Vitro

TD-106 (0.1 nM, 1 nM, 10 nM, 100 nM, 1000 nM, 10 μM, and 100 μM; 72 hours) inhibits the proliferation of NCI-H929 myeloma cell line with an CC₅₀ of 0.039 μM^[1].

TD-106 (1, 10, 100, and 1000 nM) induces the degradation of IKZF1/3 in NCI-H929 cells^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

	Cell Cytotoxicity Assay ^[1]
Cell Line:	NCI-H929 cells
Concentration:	72 hours
Incubation Time:	0.1 nM, 1 nM, 10 nM, 100 nM, 1000 nM, 10 μM, and 100 μM
Result:	Inhibited cell proliferation with an CC ₅₀ of 0.039 μM.
In Vivo	<p>TD-106 (50 mg/kg; intraperitoneally; q.d. for 14 days) possesses anti-myeloma activity in SCID mice with TMD-8 xenograft model.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
Animal Model:	Female SCID (CB-17/IcrCri-scid) mice with TMD-8 xenograft model ^[1]
Dosage:	50 mg/kg
Administration:	Intraperitoneally (i.p.); q.d. for 14 days
Result:	Treatment inhibited tumor growth during this duration.

REFERENCES

[1]. Kim SA, et al. A novel cereblon modulator for targeted protein degradation. Eur J Med Chem. 2019 Mar 15;166:65-74.

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

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