

TD-106

Chemical Properties

CAS No. :	2250288-69-6
Formula:	C12H11N5O3
Molecular Weight:	273.247
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	TD-106 is a modulator of cereblon (CRBN), and can be used for targeted protein degradation. BRD4 PROTACs with TD-106 induce BRD4 degradation.
Targets(IC50)	Others,Ligands for E3 Ligase
In vitro	TD-106 inhibits the proliferation of NCI-H929 myeloma cell line with an CC50 of 0.039 μM, and induces the degradation of IKZF1/3 in NCI-H929 cells.
In vivo	In SCID mice with TMD-8 xenograft model, TD-106 possesses anti-myeloma activity .

Solubility Information

Solubility	DMSO: 125.00 mg/mL (457.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.30 mg/mL (12.08 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6597 mL	18.2983 mL	36.5965 mL
5 mM	0.7319 mL	3.6597 mL	7.3193 mL
10 mM	0.366 mL	1.8298 mL	3.6597 mL
50 mM	0.0732 mL	0.366 mL	0.7319 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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