Proteins



Product Data Sheet

Thalidomide-Piperazine-PEG3-COOH

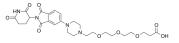
Cat. No.: HY-138780 CAS No.: 2797619-63-5 Molecular Formula: $C_{26}H_{34}N_4O_9$ Molecular Weight: 546.57

Target: E3 Ligase Ligand-Linker Conjugates

Pathway: **PROTAC**

Storage: -20°C, stored under nitrogen

* In solvent: -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO: 125 mg/mL (228.70 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.8296 mL	9.1480 mL	18.2959 mL
	5 mM	0.3659 mL	1.8296 mL	3.6592 mL
	10 mM	0.1830 mL	0.9148 mL	1.8296 mL

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

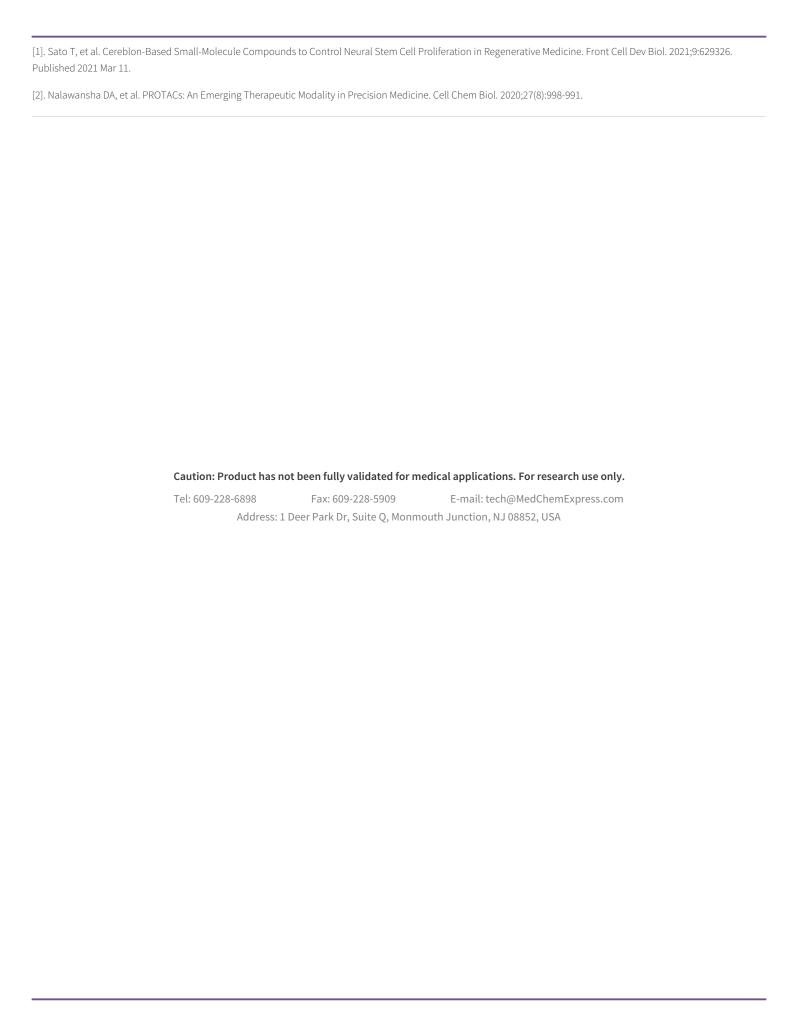
In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (3.81 mM); Suspended solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (3.81 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	Thalidomide-Piperazine-PEG3-COOH is a synthesized E3 ligase ligand-linker conjugate that incorporates the Thalidomide based cereblon ligand and a linker used in PROTAC technology $^{[1]}$.	
IC ₅₀ & Target	Cereblon	
In Vitro	PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES



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