Thalidomide-Piperazine-PEG2-COOH

Cat. No.: HY-138781 CAS No.: 2797430-20-5 Molecular Formula: $C_{24}H_{30}N_4O_8$ Molecular Weight: 502.52

E3 Ligase Ligand-Linker Conjugates Target:

Pathway: **PROTAC**

Storage: -20°C, stored under nitrogen

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

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 250 mg/mL (497.49 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.9900 mL	9.9499 mL	19.8997 mL
	5 mM	0.3980 mL	1.9900 mL	3.9799 mL
	10 mM	0.1990 mL	0.9950 mL	1.9900 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 (4.14 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 (4.14 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	Thalidomide-Piperazine-PEG2-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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