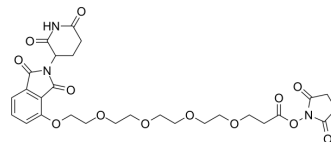


## Thalidomide-O-PEG4-NHS ester

Cat. No.:	HY-141012
CAS No.:	2411681-88-2
Molecular Formula:	C <sub>28</sub> H <sub>33</sub> N <sub>3</sub> O <sub>13</sub>
Molecular Weight:	619.57
Target:	E3 Ligase Ligand-Linker Conjugates
Pathway:	PROTAC
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL (134.50 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	1.6140 mL	8.0701 mL	16.1402 mL
		5 mM	0.3228 mL	1.6140 mL	3.2280 mL
	10 mM	0.1614 mL	0.8070 mL	1.6140 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 (3.36 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.36 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.36 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Thalidomide-O-PEG4-NHS ester is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs <sup>[1]</sup> .
IC <sub>50</sub> & 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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562

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

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