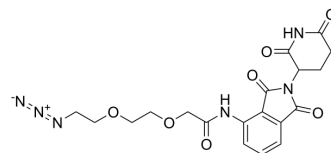


## Pomalidomide-PEG2-azide

Cat. No.:	HY-137537
CAS No.:	2267306-14-7
Molecular Formula:	C <sub>19</sub> H <sub>20</sub> N <sub>6</sub> O <sub>7</sub>
Molecular Weight:	444.4
Target:	E3 Ligase Ligand-Linker Conjugates
Pathway:	PROTAC
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 90 mg/mL (202.52 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.2502 mL	11.2511 mL	22.5023 mL
				5 mM	0.4500 mL	2.2502 mL	4.5005 mL
				10 mM	0.2250 mL	1.1251 mL	2.2502 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (11.25 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Pomalidomide-PEG2-azide is a synthesized E3 ligase ligand-linker conjugate that incorporates the Pomalidomide based cereblon ligand and 2-unit PEG linker used in PROTAC technology <sup>[1]</sup> . Pomalidomide-PEG2-azide is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.
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]. Fangqing Zhang, et al. Discovery of a new class of PROTAC BRD4 degraders based on a dihydroquinazolinone derivative and lenalidomide/pomalidomide. Bioorg Med Chem. 2020 Jan 1;28(1):115228.

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

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