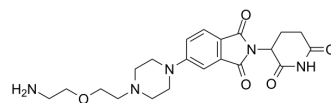


Thalidomide-Piperazine-PEG1-NH₂

Cat. No.:	HY-138789
CAS No.:	2357111-29-4
Molecular Formula:	C ₂₁ H ₂₇ N ₅ O ₅
Molecular Weight:	429.47
Target:	E3 Ligase Ligand-Linker Conjugates
Pathway:	PROTAC
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (582.11 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3285 mL	11.6423 mL	23.2845 mL
	5 mM	0.4657 mL	2.3285 mL	4.6569 mL
	10 mM	0.2328 mL	1.1642 mL	2.3285 mL

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

BIOLOGICAL ACTIVITY

Description

Thalidomide-Piperazine-PEG1-NH₂ is a synthesized E3 ligase ligand-linker conjugate that incorporates the Thalidomide based cereblon ligand and a linker used in PROTAC technology^[1].

IC₅₀ & 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

[1]. Sato T, et al. Cereblon-Based Small-Molecule Compounds to Control Neural Stem Cell Proliferation in Regenerative Medicine. *Front Cell Dev Biol.* 2021;9:629326. Published 2021 Mar 11.

[2]. Nalawansa DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. *Cell Chem Biol.* 2020;27(8):998-1000.

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

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