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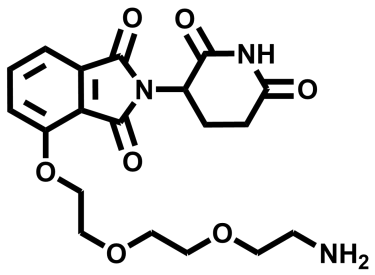
# Thalidomide-PEG3-NH2

**Chemical Name:** 4-{2-[2-(2-aminoethoxy)ethoxy]ethoxy}-2-(2, 6-dioxopiperidin-3-yl)-2, 3-dihydro-1H-isoindole-1, 3-dione

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|---|---|
| Molecular Weight: | 405.40 |
| Formula: | $C_{19}H_{23}N_3O_7$ |
| Purity: | ≥98% |
| CAS#: | 1957236-10-0 |
| Solubility: | Soluble in DMSO |
| Storage | Powder: 4°C 1 year<br>DMSO: 4°C 3 month<br>-20°C 1 year |

**Biological Activity:**

Thalidomide-PEG3-NH2 is a synthesized E3 ligase ligand-linker conjugate that incorporates the Thalidomide based cereblon ligand and a linker used in PROTAC technology.

**How to Use:**

**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.

**In vivo:** n/a

**Reference:**

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. Nalawansha DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. Cell Chem Biol. 2020;27(8):998-997.