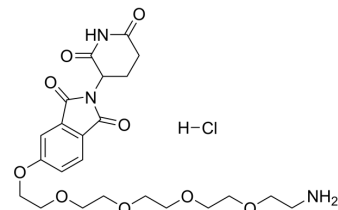


Thalidomide-PEG5-NH₂ hydrochloride

| | |
|---------------------------|--|
| Cat. No.: | HY-138784A |
| CAS No.: | 2703775-06-6 |
| Molecular Formula: | C ₂₃ H ₃₂ ClN ₃ O ₉ |
| Molecular Weight: | 529.97 |
| 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 : 125 mg/mL (235.86 mM; Need ultrasonic)

| Concentration | Mass | | | |
|---------------|-----------|-----------|------------|--|
| | 1 mg | 5 mg | 10 mg | |
| 1 mM | 1.8869 mL | 9.4345 mL | 18.8690 mL | |
| 5 mM | 0.3774 mL | 1.8869 mL | 3.7738 mL | |
| 10 mM | 0.1887 mL | 0.9434 mL | 1.8869 mL | |

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

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | Thalidomide-PEG5-NH ₂ hydrochloride 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):998-1005.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA