
Product Data Sheet

Product Name: Thalidomide-O-amido-PEG-C2-NH2

Cat. No.: GC67606

Chemical Properties

Cas. No. 2022182-59-6

Formula $C_{19}H_{22}N_4O_7$ M.Wt 418.4

Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure

Background

Thalidomide-O-amido-PEG-C2-NH2 is a synthesized E3 ligase ligand-linker conjugate that incorporates the Thalidomide based cereblon ligand and a linker used in PROTAC technology^[1].

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].

[1]. Chessum NEA, et al. Demonstrating In-Cell Target Engagement Using a Pirin Protein Degradation Probe (CCT367766). J Med Chem. 2018 Feb 8;61(3):918-933.

[2]. 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.

[3]. Nalawansa DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. Cell Chem Biol. 2020;27(8):998-985.

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

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