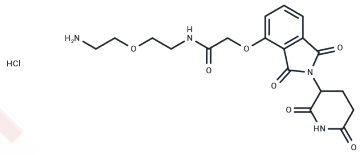
Data Sheet (Cat.No.T18818)

TargetMol

Thalidomide-O-amido-PEG-C2-NH2 hydrochloride

Chemical Properties



CAS No. : 2204226-02-6

Formula: C19H23ClN4O7

Molecular Weight: 454.862

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Thalidomide-O-amido-PEG-C2-NH2 hydrochloride is a synthesized E3 ligase ligand-linker conjugate, incorporating a Thalidomide-based cereblon ligand and a linker. This compound is used in the synthesis of PROTACs.
Targets(IC50)	Apoptosis,Autophagy,E3 Ligase Ligand-Linker Conjugates
In vitro	PROTACs consist of two ligands joined by a linker: one ligand targets an E3 ubiquitin ligase, and the other targets the protein of interest. They leverage the intracellular ubiquitin-proteasome system to selectively degrade these target proteins [1].

Solubility Information

Solubility	H2O: 100 mg/mL (219.85 mM),Sonication is recommended. DMSO: 125 mg/mL (274.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (8.79 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1985 mL	10.9924 mL	21.9848 mL
5 mM	0.4397 mL	2.1985 mL	4.397 mL
10 mM	0.2198 mL	1.0992 mL	2.1985 mL
50 mM	0.044 mL	0.2198 mL	0.4397 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.