

Thalidomide-Piperazine-Piperidine

Chemical Properties

CAS No. : 2229716-11-2

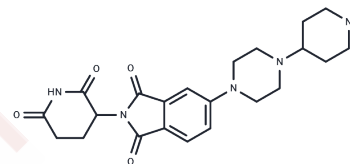
Formula: C22H27N5O4

Molecular Weight: 425.489

Keep away from direct sunlight

Storage: 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-Piperazine-Piperidine is a compound composed of a synthesized E3 ligase ligand-linker conjugate. It combines a cereblon ligand derived from Thalidomide with a linker commonly used in PROTAC technology.
Targets(IC50)	Apoptosis,Others,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 binds the target protein, utilizing the intracellular ubiquitin-proteasome system for selective protein degradation[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3502 mL	11.7512 mL	23.5023 mL
5 mM	0.470 mL	2.3502 mL	4.7005 mL
10 mM	0.235 mL	1.1751 mL	2.3502 mL
50 mM	0.047 mL	0.235 mL	0.470 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

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.

Nalawansha DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. *Cell Chem Biol.* 2020;27(8):998-1008.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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