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

Cat. No.: HY-122694A

CAS No.: 2204226-02-6

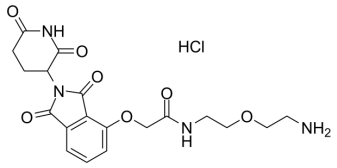
Molecular Formula: $C_{19}H_{23}ClN_4O_7$

Molecular Weight: 454.86

Target: E3 Ligase Ligand-Linker Conjugates

Pathway: PROTAC

Storage: 4°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 (274.81 mM; Need ultrasonic)
H_2O : 100 mg/mL (219.85 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1985 mL	10.9924 mL	21.9848 mL
5 mM	0.4397 mL	2.1985 mL	4.3970 mL
10 mM	0.2198 mL	1.0992 mL	2.1985 mL

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 25 mg/mL (54.96 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.57 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.57 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.57 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Thalidomide-O-amido-PEG-C2-NH2 hydrochloride, a synthesized E3 ligase ligand-linker conjugate that incorporates the Thalidomide based cereblon ligand and a linker, can be used in the synthesis of PROTACs[1].

IC_{50} & 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[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

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