Thalidomide-O-amido-PEG2-C2-NH2 TFA

Cat. No.: HY-112617A

CAS No.: 1957235-75-4

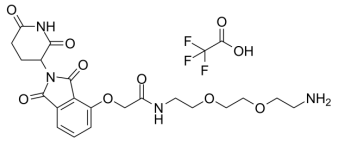
Molecular Formula: $C_{23}H_{27}F_3N_4O_{10}$

Molecular Weight: 576.48

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

H_2O : 150 mg/mL (260.20 mM; Need ultrasonic)
DMSO : 100 mg/mL (173.47 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.7347 mL	8.6733 mL	17.3467 mL
5 mM	0.3469 mL	1.7347 mL	3.4693 mL
10 mM	0.1735 mL	0.8673 mL	1.7347 mL

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 100 mg/mL (173.47 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (4.34 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (4.34 mM); Clear solution; Need ultrasonic
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (4.34 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Thalidomide-O-amido-PEG2-C2-NH2 TFA is a synthesized E3 ligase ligand-linker conjugate that incorporates the Thalidomide based cereblon ligand and 2-unit PEG linker used in PROTAC technology.

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.

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

REFERENCES

[1]. ARYL SULFONOHYDRAZIDES. WO 2017/176958 A1.

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