Thalidomide-propargyl

Cat. No.: HY-126457

CAS No.: 2098487-39-7

Molecular Formula: $C_{16}H_{12}N_2O_5$

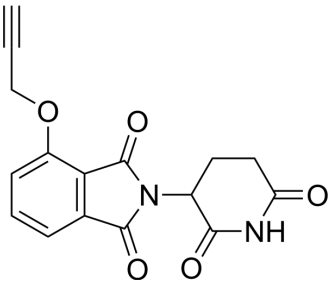
Molecular Weight: 312.28

Target: Ligands for E3 Ligase

Pathway: PROTAC

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 16.67 mg/mL (53.38 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.2023 mL	16.0113 mL	32.0225 mL
5 mM	0.6405 mL	3.2023 mL	6.4045 mL
10 mM	0.3202 mL	1.6011 mL	3.2023 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1.67 mg/mL (5.35 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.67 mg/mL (5.35 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.67 mg/mL (5.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Thalidomide-propargyl is the Thalidomide-based Cereblon ligand used in the recruitment of CRBN protein. Thalidomide-propargyl can be connected to the ligand for protein by a linker to form the IMiD containing PROTACs[1]. Thalidomide-propargyl is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

IC_{50} & Target

Cereblon

REFERENCES

[1]. Wurz RP, et al. A "Click Chemistry Platform" for the Rapid Synthesis of Bispecific Molecules for Inducing Protein Degradation. J Med Chem. 2018 Jan 25;61(2):453-461.

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