Thalidomide-O-PEG2-propargyl

Cat. No.: HY-126458

CAS No.: 2098487-52-4

Molecular Formula: $C_{20}H_{20}N_2O_7$

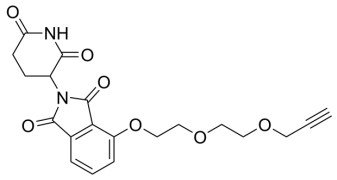
Molecular Weight: 400.38

Target: E3 Ligase Ligand-Linker Conjugates

Pathway: PROTAC

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 120 mg/mL (299.72 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4976 mL	12.4881 mL	24.9763 mL
	5 mM	0.4995 mL	2.4976 mL	4.9953 mL
	10 mM	0.2498 mL	1.2488 mL	2.4976 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: ≥ 3 mg/mL (7.49 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 3 mg/mL (7.49 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 3 mg/mL (7.49 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Thalidomide-O-PEG2-propargyl (E3 ligase Ligand-Linker Conjugates 32) is a synthesized E3 ligase ligand-linker conjugate that incorporates the Thalidomide based cereblon ligand and 2-unit PEG linker used in PROTAC technology[1]. Thalidomide-O-PEG2-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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