THP-PEG4-Pyrrolidine(N-Boc)-CH2OH

Cat. No.: HY-130820

CAS No.: 2378261-80-2

Molecular Formula: $C_{23}H_{43}NO_9$

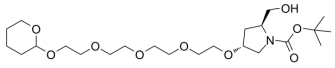
Molecular Weight: 477.59

Target: PROTAC Linkers

Pathway: PROTAC

Storage: -20°C, stored under nitrogen

* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (209.38 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0938 mL	10.4692 mL	20.9385 mL
	5 mM	0.4188 mL	2.0938 mL	4.1877 mL
	10 mM	0.2094 mL	1.0469 mL	2.0938 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: ≥ 2.5 mg/mL (5.23 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.23 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

THP-PEG4-Pyrrolidine(N-Boc)-CH2OH is a PEG-based PROTAC linker can be used in the synthesis of PROTAC K-Ras Degrader-1 (HY-129523)[1].

IC_{50} & Target

PEGs

In Vitro

PROTAC K-Ras Degrader-1 is potent K-Ras degrader based PROTAC, exhibits ≥70% degradation efficacy in SW1573 cells[1].
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]. CREW, Andrew P., et al. MODULATORS OF PROTEOLYSIS AND ASSOCIATED METHODS OF USE. WO2019195609A2.

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