# N-(Boc-PEG3)-N-bis(PEG3-acid)

**Cat. No.:** HY-140536

**CAS No.:** 2055042-61-8

**Molecular Formula:** $C_{31}H_{60}N_2O_{15}$

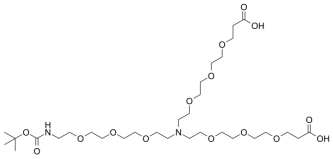
**Molecular Weight:** 700.81

**Target:** PROTAC Linkers

**Pathway:** PROTAC

**Storage:**

| | | |
|---|---|---|
| Pure form | -20°C | 3 years |
| In solvent | -80°C | 6 months |
| | -20°C | 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 100 mg/mL (142.69 mM; Need ultrasonic)

**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 1.4269 mL | 7.1346 mL | 14.2692 mL |
| 5 mM | 0.2854 mL | 1.4269 mL | 2.8538 mL |
| 10 mM | 0.1427 mL | 0.7135 mL | 1.4269 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 (3.57 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (3.57 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.57 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

N-(Boc-PEG3)-N-bis(PEG3-acid) is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[1].

**$IC_{50}$ & Target**

PEGs

**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]. An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562



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