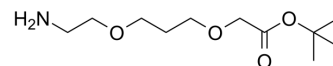


## NH2-PEG2-CH2-Boc

Cat. No.:	HY-42427		
CAS No.:	1948273-09-3		
Molecular Formula:	C <sub>11</sub> H <sub>23</sub> NO <sub>4</sub>		
Molecular Weight:	233.3		
Target:	PROTAC Linkers		
Pathway:	PROTAC		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 200 mg/mL (857.27 mM; Need ultrasonic)  
 H<sub>2</sub>O : 100 mg/mL (428.63 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		4.2863 mL	21.4316 mL	42.8633 mL
	5 mM		0.8573 mL	4.2863 mL	8.5727 mL
	10 mM		0.4286 mL	2.1432 mL	4.2863 mL

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

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: ≥ 100 mg/mL (428.63 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 3.75 mg/mL (16.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 3.75 mg/mL (16.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 3.75 mg/mL (16.07 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

NH2-PEG2-CH2-Boc is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

PEGs

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**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<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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**REFERENCES**

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[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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**Caution: Product has not been fully validated for medical applications. For research use only.**

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