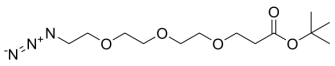
N3-PEG3-CH2CH2-Boc

Cat. No.:	HY-42489
CAS No.:	252881-73-5
Molecular Formula:	$C_{13}H_{25}N_3O_5$
Molecular Weight:	303.35
Target:	ADC Linker; PROTAC Linkers
Pathway:	Antibody-drug Conjugate/ADC Related; PROTAC
Storage:	Pure form -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	N3-PEG3-CH2CH2-Boc is a cleavable 3 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs)[1]. N3-PEG3-CH2CH2-Boc is also a PEG- and Alkyl/ether-based PROTAC linker that can be used in the synthesis of PROTACs[2]. N3-PEG3-CH2CH2-Boc is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAc) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.		
IC_{50} & Target	PEGs	Alkyl/ether	Cleavable Linker
In Vitro	ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker[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[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Yongxin Robert ZHAO, et al. Conjugation linkers, cell binding molecule-drug conjugates containing the likers, methods of making and uses such conjugates with the linkers. WO2018086139A1.

[2]. Peng L, et al. Identification of New Small-Molecule Inducers of Estrogen-related Receptor α (ERRα) Degradation. ACS Med Chem Lett. 2019 Apr 12;10(5):767-772.

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