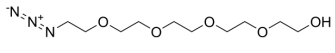
Azido-PEG5-alcohol

Cat. No.:	HY-130211
CAS No.:	86770-68-5
Molecular Formula:	$C_{10}H_{21}N_3O_5$
Molecular Weight:	263.29
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	Azido-PEG5-alcohol is a non-cleavable 5 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs)[1]. Azido-PEG5-alcohol is also a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[2]. Azido-PEG5-alcohol 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	Non-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]. Zhang FL, et al. Molecular-target-based anticancer photosensitizer: synthesis and in vitro photodynamic activity of erlotinib-zinc(II) phthalocyanine conjugates. ChemMedChem. 2015 Feb;10(2):312-20.

[2]. Nan JI, et al. Mertk degraders and uses thereof. WO2020010210A1.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA