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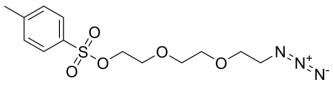
Azide-PEG3-Tos

Cat. No.:	HY-140004
CAS No.:	178685-33-1
Molecular Formula:	$C_{13}H_{19}N_3O_5S$
Molecular Weight:	329.37
Target:	PROTAC Linkers; ADC Linker
Pathway:	PROTAC; Antibody-drug Conjugate/ADC Related
Storage:	Pure form -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Azide-PEG3-Tos is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[1]. Azide-PEG3-Tos is also a non-cleavable 3 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs)[2]. Azide-PEG3-Tos 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	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]. ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Borchmann DE, et al. GRGDS-Functionalized Poly(lactide)-graft-poly(ethylene glycol) Copolymers: Combining Thiol-Ene Chemistry with Staudinger Ligation. Macromolecules. 2013 Jun 11;46(11):4426-4431.

[2]. Park, Tae Kyo, et al. Compound bearing beta-galactoside-introduced self-immolative linker. WO2018124758A2.

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