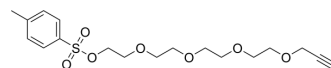


Propargyl-PEG4-Tos

Cat. No.:	HY-130387		
CAS No.:	875770-32-4		
Molecular Formula:	C ₁₈ H ₂₆ O ₇ S		
Molecular Weight:	386.46		
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	Propargyl-PEG4-Tos is a PEG-based PROTAC linker can be used in the synthesis of PROTACs. Propargyl-PEG4-Tos is a cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs) ^{[1][2]} . Propargyl-PEG4-Tos is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.	
IC₅₀ & Target	PEGs	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. ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

- [1]. Wurz RP, et al. A "Click Chemistry Platform" for the Rapid Synthesis of Bispecific Molecules for Inducing Protein Degradation. *J Med Chem.* 2018 Jan 25;61(2):453-461.
- [2]. Senthilkumar T, et al. Conjugated Polymer Nanoparticles with Appended Photo-Responsive Units for Controlled Drug Delivery, Release, and Imaging. *Angew Chem Int Ed Engl.* 2018 Oct 1;57(40):13114-13119.

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

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