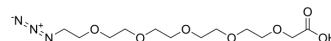


Azido-PEG5-CH₂CO₂H

Cat. No.:	HY-130194
CAS No.:	217180-81-9
Molecular Formula:	C ₁₂ H ₂₃ N ₃ O ₇
Molecular Weight:	321.33
Target:	ADC Linker; PROTAC Linkers
Pathway:	Antibody-drug Conjugate/ADC Related; PROTAC
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (311.21 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.1121 mL	15.5603 mL	31.1207 mL
		5 mM	0.6224 mL	3.1121 mL	6.2241 mL
	10 mM	0.3112 mL	1.5560 mL	3.1121 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.78 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.78 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.78 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Azido-PEG5-CH ₂ CO ₂ H is a cleavable 5 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs). Azido-PEG5-CH ₂ CO ₂ H is also a PEG-based PROTAC linker that can be used in the synthesis of PROTACs ^[1] . Azido-PEG5-CH ₂ CO ₂ H 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.	
IC₅₀ & Target	Cleavable Linker	PEGs
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^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yong Zu Kim, et al. Antibody-drug conjugates comprising branched linkers and methods related thereto. WO2017089895A1.

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

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