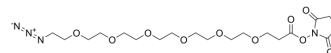


## Azido-PEG6-NHS ester

<b>Cat. No.:</b>	HY-130474
<b>CAS No.:</b>	2055014-64-5
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>32</sub> N <sub>4</sub> O <sub>10</sub>
<b>Molecular Weight:</b>	476.48
<b>Target:</b>	ADC Linker; PROTAC Linkers
<b>Pathway:</b>	Antibody-drug Conjugate/ADC Related; PROTAC
<b>Storage:</b>	Pure form -20°C 3 years In solvent -80°C 6 months -20°C 1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (209.87 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	2.0987 mL	10.4936 mL	20.9872 mL
		5 mM	0.4197 mL	2.0987 mL	4.1974 mL
	10 mM	0.2099 mL	1.0494 mL	2.0987 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.25 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.25 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Azido-PEG6-NHS ester is a cleavable 6 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs) <sup>[1]</sup> . Azido-PEG6-NHS ester is also a PEG- and Alkyl/ether based PROTAC linker that can be used in the synthesis of PROTACs <sup>[2]</sup> . Azido-PEG6-NHS ester 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.		
<b>IC<sub>50</sub> &amp; Target</b>	PEGs	Alkyl/ether	Cleavable Linker
<b>In Vitro</b>	ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker <sup>[1]</sup> . 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 <sup>[2]</sup> .		

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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- [1]. Thiele NA, et al. An Eighteen-Membered Macrocyclic Ligand for Actinium-225 Targeted Alpha Therapy. *Angew Chem Int Ed Engl.* 2017 Nov 13;56(46):14712-14717.
- [2]. John W. Babich, et al. Trifunctional constructs with tunable pharmacokinetics useful in imaging and anti-tumor therapies. WO2018187631A1.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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