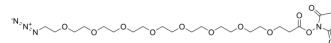


## Azido-PEG8-NHS ester

<b>Cat. No.:</b>	HY-130184
<b>CAS No.:</b>	1204834-00-3
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>40</sub> N <sub>4</sub> O <sub>12</sub>
<b>Molecular Weight:</b>	564.58
<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

#### In Vitro

DMSO : 100 mg/mL (177.12 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7712 mL	8.8561 mL	17.7123 mL
	5 mM	0.3542 mL	1.7712 mL	3.5425 mL
	10 mM	0.1771 mL	0.8856 mL	1.7712 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (4.43 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (4.43 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.43 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Azido-PEG8-NHS ester is a cleavable 8 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs)<sup>[1]</sup>. Azido-PEG8-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-PEG8-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.

#### IC<sub>50</sub> & Target

PEGs	Alkyl/ether	Cleavable Linker
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**In Vitro**

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

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**REFERENCES**

[1]. Mahendra Persaud Deonarain, et al. Biological materials and uses thereof. WO2016046574A1.

[2]. Rong Yuan, et al. Viruslike Element-Tagged Nanoparticle Inductively Coupled Plasma Mass Spectrometry Signal Multiplier: Membrane Biomarker Mediated Cell Counting. Analytical Chemistry (Washington, DC, United States) (2019), 91(8), 4948-4952.

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

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