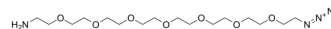


## Azido-PEG7-amine

Cat. No.:	HY-130324
CAS No.:	1333154-77-0
Molecular Formula:	C <sub>16</sub> H <sub>34</sub> N <sub>4</sub> O <sub>7</sub>
Molecular Weight:	394.46
Target:	ADC Linker; PROTAC Linker
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

H<sub>2</sub>O : 100 mg/mL (253.51 mM; Need ultrasonic)  
DMSO : 100 mg/mL (253.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.5351 mL	12.6756 mL	25.3511 mL
	5 mM	0.5070 mL	2.5351 mL	5.0702 mL
	10 mM	0.2535 mL	1.2676 mL	2.5351 mL

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

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 120 mg/mL (304.21 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (6.34 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (6.34 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.34 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Azido-PEG7-amine is a non-cleavable 7 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs). Azido-PEG7-amine is also a PEG-based PROTAC linker that can be used in the synthesis of PROTACs<sup>[1]</sup>.

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

Non-cleavable      PEGs

#### In Vitro

ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker.

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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. 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]. Kevin W. Gillman, et al. Macrocyclic peptides useful as immunomodulators. WO2016077518A1.

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

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