

Product Data Sheet

Azido-PEG6-amine

Cat. No.: HY-140215 CAS No.: 957486-82-7 Molecular Formula: $C_{14}H_{30}N_4O_6$ Molecular Weight: 350.41

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	Azido-PEG6-amine is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs ^[1] . Azido-PEG6-amine is also a non-cleavable 6 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs) ^[2] . Azido-PEG6-amine 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 ₅₀ & Target	PEGs	Non-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 ^[1] . ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Williams EGL, et al. Glycosylated Reversible Addition-Fragmentation Chain Transfer Polymers with Varying Polyethylene Glycol Linkers Produce Different Short Interfering RNA Uptake, Gene Silencing, and Toxicity Profiles. Biomacromolecules. 2017 Dec 11;18(12):4099-4112.

[2]. Philip Wilson Howard, et al. Pyrrolobenzodiazepines and conjugates thereof. WO2014140862A2.

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

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Screening Libraries

Inhibitors

Proteins