Azido-PEG5-acid

Cat. No.: HY-130572

CAS No.: 1425973-16-5

Molecular Formula: $C_{13}H_{25}N_3O_7$

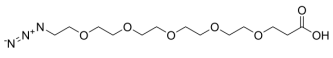
Molecular Weight: 335.35

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-PEG5-acid is a PEG-based PROTAC linker can be used in the synthesis of PROTACs, such as the conjugate CPT-APO (CPT: Camptothecin (HY-16560)). Azido-PEG5-acid is a non-cleavable 5 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs)[1][2]. Azido-PEG5-acid 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	ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker. 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[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zolotarskaya OY, et al. Click synthesis of a polyamidoamine dendrimer-based camptothecin prodrug. RSC Adv. 2015;5(72):58600-58608. Epub 2015 Jun 29.

[2]. An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562.

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