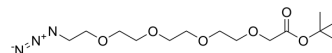


Azido-PEG4-CH2-Boc

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-42618 | | |
| CAS No.: | 864681-04-9 | | |
| Molecular Formula: | C ₁₄ H ₂₇ N ₃ O ₆ | | |
| Molecular Weight: | 333.38 | | |
| Target: | ADC Linker; PROTAC Linkers | | |
| Pathway: | Antibody-drug Conjugate/ADC Related; PROTAC | | |
| 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-PEG4-CH2-Boc is a cleavable 4 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs) ^[1] . Azido-PEG4-CH2-Boc is also a PEG- and Alkyl/ether-based PROTAC linker that can be used in the synthesis of PROTACs ^[2] . Azido-PEG4-CH2-Boc 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. | | |
| IC₅₀ & Target | PEGs | Alkyl/ether | Cleavable Linker |
| In Vitro | ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker ^[1] . 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]. Shiladitya Sengupta, et al. Targeted drug delivery through affinity based linkers. WO2015148126A1.

[2]. Zhang F, et al. Discovery of a new class of PROTAC BRD4 degraders based on a dihydroquinazolinone derivative and lenalidomide/pomalidomide. Bioorg Med Chem. 2020 Jan 1;28(1):115228.

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

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