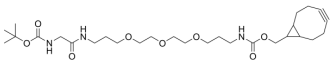
Boc-gly-PEG3-endo-BCN

Cat. No.:	HY-140081
CAS No.:	2110444-63-6
Molecular Formula:	$C_{28}H_{47}N_3O_8$
Molecular Weight:	553.69
Target:	PROTAC Linkers; ADC Linker
Pathway:	PROTAC; Antibody-drug Conjugate/ADC Related
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Boc-gly-PEG3-endo-BCN is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[1]. Boc-gly-PEG3-endo-BCN is also a cleavable 2 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs)[2]. Boc-gly-PEG3-endo-BCN is a click chemistry reagent, it contains a BCN group that can undergo strain-promoted alkyne-azide cycloaddition (SPAAC) with molecules containing Azide groups.		
IC_{50} & Target	PEGs	Alkyl/ether	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]. 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.

[2]. Beck A, et al. Strategies and challenges for the next generation of antibody-drug conjugates. Nat Rev Drug Discov. 2017 May;16(5):315-337.

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