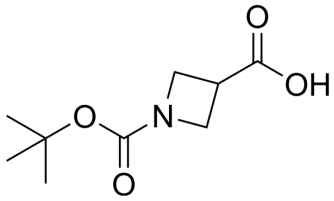
1-Boc-azetidine-3-carboxylic acid

Cat. No.:	HY-40141
CAS No.:	142253-55-2
Molecular Formula:	$C_9H_{15}NO_4$
Molecular Weight:	201.22
Target:	ADC Linker; PROTAC Linkers
Pathway:	Antibody-drug Conjugate/ADC Related; PROTAC
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	1-Boc-azetidine-3-carboxylic acid is a non-cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs). 1-Boc-azetidine-3-carboxylic acid is also a alkyl chain-based PROTAC linker that can be used in the synthesis of PROTACs[2]
IC_{50} & Target	Non-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]. Beck A, et al. Strategies and challenges for the next generation of antibody-drug conjugates. Nat Rev Drug Discov. 2017;16(5):315-337.

[2]. Nalawansha DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. Cell Chem Biol. 2020;27(8):998-985.

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