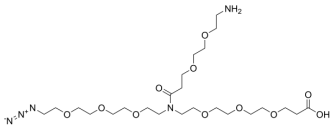
N-(Azido-PEG3)-N-(PEG2-amine)-PEG3-acid

Cat. No.:	HY-140247
CAS No.:	2183440-70-0
Molecular Formula:	$C_{24}H_{47}N_5O_{11}$
Molecular Weight:	581.66
Target:	PROTAC Linkers
Pathway:	PROTAC
Storage:	Pure form -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	N-(Azido-PEG3)-N-(PEG2-amine)-PEG3-acid is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[1]. N-(Azido-PEG3)-N-(PEG2-amine)-PEG3-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
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]. 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

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