N-(Azido-PEG4)-N-bis(PEG4-t-butyl ester)

Cat. No.: HY-140870

CAS No.: 2093152-79-3

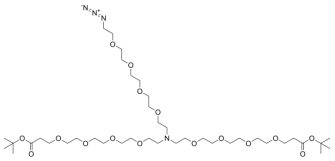
Molecular Formula: $C_{40}H_{78}N_4O_{16}$

Molecular Weight: 871.06

Target: PROTAC Linkers

Pathway: PROTAC

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	N-(Azido-PEG4)-N-bis(PEG4-t-butyl ester) is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[1]. N-(Azido-PEG4)-N-bis(PEG4-t-butyl ester) 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	Alkyl/ether
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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