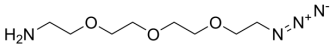
Amino-PEG3-C2-Azido

Cat. No.:	HY-W021401
CAS No.:	134179-38-7
Molecular Formula:	$C_8H_{18}N_4O_3$
Molecular Weight:	218.25
Target:	PROTAC Linkers
Pathway:	PROTAC
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



BIOLOGICAL ACTIVITY

Description	Amino-PEG3-C2-Azido is a PEG-based PROTAC linker can be used in the synthesis of the PARP1 degrader iRucaparib-TP3 (HY-130645)[1]. Amino-PEG3-C2-Azido 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.
In Vitro	Pomalidomide (a CRBN ligand and a known immunomodulatory imide drug (IMiD)) is conjugated to Rucaparib through a tri(ethylene glycol) (PEG3) linker to afford a compound that we designate as iRucaparib-TP3 (IMiD-Rucaparib with a triazole-PEG3 linker). iRucaparib-TP3 induces PARP1 degradation[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang S, et al. Uncoupling of PARP1 trapping and inhibition using selective PARP1 degradation. Nat Chem Biol. 2019 Dec;15(12):1223-1231.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA