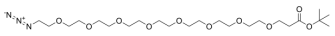
Azido-PEG8-Boc

Cat. No.:	HY-130742
CAS No.:	1623791-99-0
Molecular Formula:	$C_{23}H_{45}N_3O_{10}$
Molecular Weight:	523.62
Target:	PROTAC Linkers
Pathway:	PROTAC
Storage:	Pure form -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (381.96 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9098 mL	9.5489 mL	19.0978 mL
	5 mM	0.3820 mL	1.9098 mL	3.8196 mL
	10 mM	0.1910 mL	0.9549 mL	1.9098 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 5 mg/mL (9.55 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (9.55 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Azido-PEG8-Boc is a PEG- and Alkyl/ether-based PROTAC linker can be used in the synthesis of PROTACs[1]. Azido-PEG8-Boc 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]. Garofalo, Antonio, et al. Efficient synthesis of small-sized phosphonated dendrons: potential organic coatings of iron oxide nanoparticles. New Journal of Chemistry (2014), 38(11), 5226-5239.

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