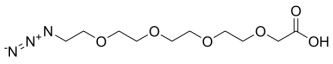
N33-TEG-COOH

Cat. No.:	HY-108370
CAS No.:	201467-81-4
Molecular Formula:	$C_{10}H_{19}N_3O_6$
Molecular Weight:	277.27
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

Ethanol : 100 mg/mL (360.66 mM; Need ultrasonic)
DMSO : 100 mg/mL (360.66 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.6066 mL	18.0330 mL	36.0659 mL
	5 mM	0.7213 mL	3.6066 mL	7.2132 mL
	10 mM	0.3607 mL	1.8033 mL	3.6066 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (9.02 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (9.02 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (9.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N33-TEG-COOH (N3-TEG-COOH) is a PEG-based PROTAC linker can be used in the synthesis of PROTACs[1]. N33-TEG-COOH 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	N33-TEG-COOH is a long linker extracted from Reference PMID: 26035625, Compound 7. A PROTAC is a heterobifunctional compound that contains two ligands connected by a linker unit. One ligand binds an E3 ubiquitin ligase protein, while the other ligand binds to the target protein of interest, thereby bringing the ligase and the target in close proximity[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zengerle M, et al. Selective Small Molecule Induced Degradation of the BET Bromodomain Protein BRD4. ACS Chem Biol. 2015 Aug 21;10(8):1770-7.

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