Azido-PEG5-triethoxysilane

Cat. No.: HY-140856

Molecular Formula: $C_{22}H_{46}N_4O_9Si$

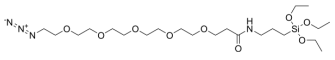
Molecular Weight: 538.71

Target: PROTAC Linkers

Pathway: PROTAC

Storage:

Pure form	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (464.07 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8563 mL	9.2814 mL	18.5629 mL
	5 mM	0.3713 mL	1.8563 mL	3.7126 mL
	10 mM	0.1856 mL	0.9281 mL	1.8563 mL

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

BIOLOGICAL ACTIVITY

Description

Azido-PEG5-triethoxysilane is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[1]. Azido-PEG5-triethoxysilane 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

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

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