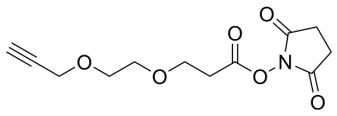
Propargyl-PEG2-NHS ester

Cat. No.:	HY-138734
CAS No.:	2512228-06-5
Molecular Formula:	$C_{12}H_{15}NO_6$
Molecular Weight:	269.25
Target:	PROTAC Linkers
Pathway:	PROTAC
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (928.51 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.7140 mL	18.5701 mL	37.1402 mL
	5 mM	0.7428 mL	3.7140 mL	7.4280 mL
	10 mM	0.3714 mL	1.8570 mL	3.7140 mL

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

BIOLOGICAL ACTIVITY

Description

Propargyl-PEG2-NHS ester is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[1]. Propargyl-PEG2-NHS ester is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide 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]. Nalawansha DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. Cell Chem Biol. 2020;27(8):998-1014.

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

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