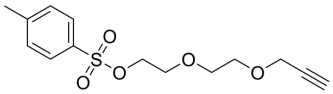
Tos-PEG2-O-Propargyl

Cat. No.:	HY-130162
CAS No.:	1119249-30-7
Molecular Formula:	$C_{14}H_{18}O_5S$
Molecular Weight:	298.35
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 : 50 mg/mL (167.59 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.3518 mL	16.7588 mL	33.5177 mL
	5 mM	0.6704 mL	3.3518 mL	6.7035 mL
	10 mM	0.3352 mL	1.6759 mL	3.3518 mL

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

BIOLOGICAL ACTIVITY

Description

Tos-PEG2-O-Propargyl is a PEG-based PROTAC linker can be used in the synthesis of Thalidomide-O-PEG2-propargyl (HY-126458)[1]. Tos-PEG2-O-Propargyl 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]. Wurz RP, et al. A "Click Chemistry Platform" for the Rapid Synthesis of Bispecific Molecules for Inducing Protein Degradation. J Med Chem. 2018 Jan 25;61(2):453-461.

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

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