Data Sheet (Cat.No.T16635)

TargetMol

Propargyl-PEG4-Tos

Chemical Properties

CAS No. : 875770-32-4

Formula: C18H26O7S

Molecular Weight: 386.46

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Propargyl-PEG4-Tos is a PEG-based PROTAC linker used for constructing bifunctional degraders and for synthesizing cleavable ADC linkers. Propargyl-PEG4-Tos provides a reactive propargyl group suitable for click chemistry and a tosyl leaving group that facilitates controlled conjugation steps, making it essential in targeted protein-degradation research and antibody-drug conjugate engineering.
Targets(IC50)	PROTAC Linker
In vitro	PROTACs, composed of two ligands linked together—one for an E3 ubiquitin ligase and the other for the target protein—utilize the intracellular ubiquitin-proteasome system to selectively degrade target proteins. ADCs consist of an antibody linked to a cytotoxin via an ADC linker.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5876 mL	12.9379 mL	25.8759 mL
5 mM	0.5175 mL	2.5876 mL	5.1752 mL
10 mM	0.2588 mL	1.2938 mL	2.5876 mL
50 mM	0.0518 mL	0.2588 mL	0.5175 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wurz RP, et al. A "Click Chemistry Platform" for the Rapid Synthesis of Bispecific Molecules for Inducing ProteinDegradation. J Med Chem. 2018 Jan 25;61(2):453-461.
Senthilkumar T, et al. Conjugated Polymer Nanoparticles with Appended Photo-Responsive Units for Controlled DrugDelivery, Release, and Imaging. Angew Chem Int Ed Engl. 2018 Oct 1;57(40):13114-13119.

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