Data Sheet (Cat.No.T15941)

TargetMol

m-PEG9-phosphonic acid

Chemical Properties

CAS No. : 2055016-25-4

Formula: C19H41O12P

Molecular Weight: 492.5

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	m-PEG9-phosphonic acid is a PEG-based linker for PROTACs (proteolysis targeting chimeras), which joins two essential ligands crucial for forming PROTAC molecules. This linker facilitates selective protein degradation by leveraging the ubiquitin-proteasome system within cells.
Targets(IC50)	Others,PROTAC Linker
In vitro	PROTACs, composed of two distinct ligands connected by a linker—one binding to an E3 ubiquitin ligase and the other to a target protein—utilize the intracellular ubiquitin-proteasome system to selectively degrade target proteins.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0305 mL	10.1523 mL	20.3046 mL
5 mM	0.4061 mL	2.0305 mL	4.0609 mL
10 mM	0.203 mL	1.0152 mL	2.0305 mL
50 mM	0.0406 mL	0.203 mL	0.4061 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

Wang Y, et al. Degradation of proteins by PROTACs and other strategies. Acta Pharm Sin B. 2020 Feb;10(2):207-238.

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