

## m-PEG5-phosphonic acid

## Chemical Properties

CAS No. : 1807512-39-5

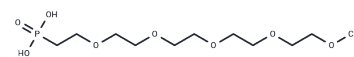
Formula: C11H25O8P

Molecular Weight: 316.29

Keep away from direct sunlight

Storage: 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-PEG5-phosphonic acid is a PEG-based linker for PROTACs, facilitating the connection of two essential ligands necessary for PROTAC molecule formation. This linker enables selective protein degradation by leveraging the ubiquitin-proteasome system within cells.
Targets(IC50)	Others,PROTAC Linker
In vitro	PROTACs consist of two ligands connected by a linker: one targets an E3 ubiquitin ligase, and the other binds the target protein. They utilize the intracellular ubiquitin-proteasome system to selectively degrade target proteins [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1617 mL	15.8083 mL	31.6166 mL
5 mM	0.6323 mL	3.1617 mL	6.3233 mL
10 mM	0.3162 mL	1.5808 mL	3.1617 mL
50 mM	0.0632 mL	0.3162 mL	0.6323 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

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

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