

Bromo-PEG5-phosphonic acid diethyl ester

Chemical Properties

CAS No. : 1446282-41-2

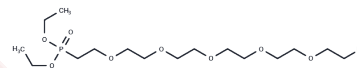
Formula: C₁₆H₃₄BrO₈P

Molecular Weight: 465.31

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

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|---------------|---|
| Description | Bromo-PEG5-phosphonic acid diethyl ester is a polyethylene glycol (PEG)-based linker utilized in the construction of PROteolysis Targeting Chimeras (PROTACs), which are heterobifunctional molecules designed to induce protein degradation[1]. |
| Targets(IC50) | Others,PROTAC Linker |
| In vitro | PROTACs are composed of two ligands linked together: one targets an E3 ubiquitin ligase, while the other binds to the target protein. By leveraging the intracellular ubiquitin-proteasome system, PROTACs selectively degrade specific proteins [1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 2.1491 mL | 10.7455 mL | 21.491 mL |
| 5 mM | 0.4298 mL | 2.1491 mL | 4.2982 mL |
| 10 mM | 0.2149 mL | 1.0746 mL | 2.1491 mL |
| 50 mM | 0.043 mL | 0.2149 mL | 0.4298 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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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