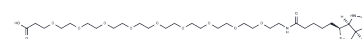


## Biotin-PEG9-CH<sub>2</sub>CH<sub>2</sub>COOH

### Chemical Properties

|                   |                                                                  |
|-------------------|------------------------------------------------------------------|
| CAS No. :         | T17597                                                           |
| Formula:          | C <sub>31</sub> H <sub>57</sub> N <sub>3</sub> O <sub>13</sub> S |
| Molecular Weight: | 711.86                                                           |
| Appearance:       | no data available                                                |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year         |



### Biological Description

|                            |                                                                                                                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                | Biotin-PEG9-CH <sub>2</sub> CH <sub>2</sub> COOH is a PEG-based linker for PROTACs which joins two essential ligands, crucial for forming PROTAC molecules. This linker enables selective protein degradation by leveraging the ubiquitin-proteasome system within cells. |
| Targets(IC <sub>50</sub> ) | Others                                                                                                                                                                                                                                                                    |
| 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].                 |

### Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.4048 mL | 7.0239 mL | 14.0477 mL |
| 5 mM  | 0.281 mL  | 1.4048 mL | 2.8095 mL  |
| 10 mM | 0.1405 mL | 0.7024 mL | 1.4048 mL  |
| 50 mM | 0.0281 mL | 0.1405 mL | 0.281 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.

### 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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