

## Biotin-PEG4-NHS ester

## Chemical Properties

CAS No. : 459426-22-3

Formula: C<sub>25</sub>H<sub>40</sub>N<sub>4</sub>O<sub>10</sub>S

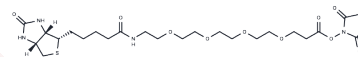
Molecular Weight: 588.67

Storage:

Keep away from direct sunlight, The compound is unstable in solution. Please use soon

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



## Biological Description

|               |  |
|---------------|--|
| Description   | Biotin-PEG4-NHS ester is a biotin-labeled PEG-based PROTAC linker for synthesizing PROTAC molecules.   |
| Targets(IC50) | PROTAC Linker  |
| In vitro      | PROTACs consist of two distinct ligands linked together: one binds to an E3 ubiquitin ligase, and the other to the target protein. They utilize the intracellular ubiquitin-proteasome system to selectively degrade target proteins[1]. |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 100 mg/mL (169.87 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.6987 mL | 8.4937 mL | 16.9874 mL |
| 5 mM  | 0.3397 mL | 1.6987 mL | 3.3975 mL  |
| 10 mM | 0.1699 mL | 0.8494 mL | 1.6987 mL  |
| 50 mM | 0.034 mL  | 0.1699 mL | 0.3397 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

Gadd MS, et al. Structural basis of PROTAC cooperative recognition for selective protein degradation. Nat Chem Biol. 2017 May;13(5):514-521.

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