

## Biotin-PEG3-acid

## Chemical Properties

CAS No. : 252881-76-8

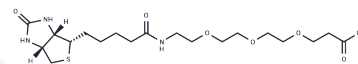
Formula: C19H33N3O7S

Molecular Weight: 447.55

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	Biotin-PEG3-acid is a biotin-labeled, PEG-based PROTAC linker that can be used in the synthesis of PROTACs. This heterobiofunctional biotin PEG derivative contains a carboxylic acid group. The hydrophilic PEG spacer arm imparts water solubility to the biotinylated molecule. [PEG Linkers] may be useful in the development of antibody-drug conjugates and drug delivery methods.
Targets(IC50)	PROTAC Linker
In vitro	PROTACs contain two ligands linked together; one binds to an E3 ubiquitin ligase and the other to the target protein. These compounds utilize the intracellular ubiquitin-proteasome system to selectively degrade target proteins[1].

## Solubility Information

Solubility	DMSO: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.47 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.2344 mL	11.1719 mL	22.3439 mL
5 mM	0.4469 mL	2.2344 mL	4.4688 mL
10 mM	0.2234 mL	1.1172 mL	2.2344 mL
50 mM	0.0447 mL	0.2234 mL	0.4469 mL

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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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