

## DBCO-PEG4-NHS ester

## Chemical Properties

CAS No. : 1427004-19-0

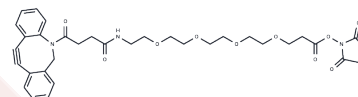
Formula: C<sub>34</sub>H<sub>39</sub>N<sub>3</sub>O<sub>10</sub>

Molecular Weight: 649.69

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	DBCO-PEG4-NHS ester is a PEG-based PROTAC linker utilized in PROTAC synthesis[1].
Targets(IC50)	PROTAC Linker
In vitro	PROTACs consist of two ligands linked together: one ligand targets an E3 ubiquitin ligase, and the other targets the specific protein. They utilize the intracellular ubiquitin-proteasome system to selectively degrade target proteins [1].

## Solubility Information

Solubility	DMSO: 79 mg/mL (121.6 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 (3.08 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	1.5392 mL	7.696 mL	15.392 mL
5 mM	0.3078 mL	1.5392 mL	3.0784 mL
10 mM	0.1539 mL	0.7696 mL	1.5392 mL
50 mM	0.0308 mL	0.1539 mL	0.3078 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

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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