

## DBCO-PEG4-Maleimide

## Chemical Properties

CAS No. : 1480516-75-3

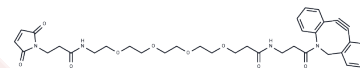
Formula: C<sub>36</sub>H<sub>42</sub>N<sub>4</sub>O<sub>9</sub>

Molecular Weight: 674.74

Store at low temperature

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	DBCO-PEG4-Maleimide is a non-cleavable PEG-based linker used in the synthesis of antibody-drug conjugates (ADCs). DBCO-PEG4-Maleimide contains a dibenzocyclooctyne group, which enables strain-promoted alkyne-azide cycloaddition (SPAAC) with azide-functionalized biomolecules, supporting efficient construction of bioconjugates under copper-free click conditions.
Targets(IC50)	ADC Linker, PROTAC Linker
In vitro	ADCs consist of an antibody linked to an ADC cytotoxin via an ADC linker.

## Solubility Information

Solubility	DMSO: 40 mg/mL (59.28 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4821 mL	7.4103 mL	14.8205 mL
5 mM	0.2964 mL	1.4821 mL	2.9641 mL
10 mM	0.1482 mL	0.741 mL	1.4821 mL
50 mM	0.0296 mL	0.1482 mL	0.2964 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

Xiaotian Zhong, et al. Capped and uncapped antibody cysteines, and their use in antibody-drug conjugation. WO2017025897A2.

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