

## Bis-PEG4-NHS ester

## Chemical Properties

CAS No. :	1314378-11-4
Formula:	C <sub>20</sub> H <sub>28</sub> N <sub>2</sub> O <sub>12</sub>
Molecular Weight:	488.442
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Bis-PEG4-NHS ester is a bis-N-hydroxysuccinimide-activated tetraethylene glycol crosslinker. Bis-PEG4-NHS's NHS groups selectively condense with primary amines to form stable amide bonds, thereby covalently crosslinking proteins, peptides, or small molecules. The PEG4 moiety in Bis-PEG4-NHS ester confers good water solubility and flexibility to the conjugate, effectively suppresses nonspecific adsorption, and reduces steric hindrance, thereby supporting site-specific, copper-free click chemistry coupling between antibodies and liposomes. Bis-PEG4-NHS ester can be used for the preparation of homogeneous antibody-drug conjugates (ADCs) and the modular construction of PROTAC bifunctional molecules.
Targets(IC50)	ADC Linker,PROTAC Linker

## Solubility Information

Solubility	DMSO: 53.34 mg/mL (109.20 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	2.0473 mL	10.2367 mL	20.4733 mL
5 mM	0.4095 mL	2.0473 mL	4.0947 mL
10 mM	0.2047 mL	1.0237 mL	2.0473 mL
50 mM	0.0409 mL	0.2047 mL	0.4095 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

Gai M, et al. A bio-orthogonal functionalization strategy for site-specific coupling of antibodies on vesicle surfaces after self-assembly[J]. Polymer Chemis 去 try, 2020, 11(2): 527-540.

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