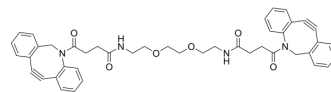


## DBCO-PEG2-DBCO

Cat. No.:	HY-151834		
CAS No.:	2639395-48-3		
Molecular Formula:	C <sub>44</sub> H <sub>42</sub> N <sub>4</sub> O <sub>6</sub>		
Molecular Weight:	722.83		
Target:	ADC Linker		
Pathway:	Antibody-drug Conjugate/ADC Related		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (138.35 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.3835 mL	6.9173 mL	13.8345 mL
	5 mM	0.2767 mL	1.3835 mL	2.7669 mL
	10 mM	0.1383 mL	0.6917 mL	1.3835 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (3.46 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (3.46 mM); Suspended solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

DBCO-PEG2-DBCO is a click chemistry reagent containing a DBCO group. DBCO-PEG2-DBCO is a PEG linker containing two terminal DBCO groups. The DBCO groups is commonly used for copper-free Click Chemistry reactions due to its strain promoted high energy. The hydrophilic PEG chain allows for increased water solubility. T Reagent grade, for research use only<sup>[1]</sup>.

### REFERENCES

- [1]. Jiang X, et al. Recent applications of click chemistry in drug discovery. Expert Opin Drug Discov. 2019 Aug;14(8):779-789.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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