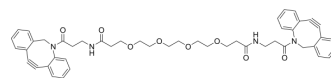


DBCO-PEG4-DBCO

Cat. No.:	HY-130346
CAS No.:	2182601-68-7
Molecular Formula:	C ₄₈ H ₅₀ N ₄ O ₈
Molecular Weight:	810.93
Target:	ADC Linker; PROTAC Linkers
Pathway:	Antibody-drug Conjugate/ADC Related; PROTAC
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (123.32 mM; Need ultrasonic)																							
	<table border="1"> <thead> <tr> <th rowspan="2">Preparing Stock Solutions</th> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td></td> <td>1 mM</td> <td>1.2332 mL</td> <td>6.1658 mL</td> <td>12.3315 mL</td> </tr> <tr> <td></td> <td>5 mM</td> <td>0.2466 mL</td> <td>1.2332 mL</td> <td>2.4663 mL</td> </tr> <tr> <td></td> <td>10 mM</td> <td>0.1233 mL</td> <td>0.6166 mL</td> <td>1.2332 mL</td> </tr> </tbody> </table>	Preparing Stock Solutions	Solvent Concentration	Mass			1 mg	5 mg	10 mg		1 mM	1.2332 mL	6.1658 mL	12.3315 mL		5 mM	0.2466 mL	1.2332 mL	2.4663 mL		10 mM	0.1233 mL	0.6166 mL	1.2332 mL
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	Please refer to the solubility information to select the appropriate solvent.																							
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.08 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (3.08 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.08 mM); Clear solution 																							

BIOLOGICAL ACTIVITY

Description	DBCO-PEG4-DBCO is a PEG-based PROTAC linker can be used in the synthesis of PROTACs. DBCO-PEG4-DBCO is a cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs) ^[1] . DBCO-PEG4-DBCO is a click chemistry reagent, it contains a DBCO group that can undergo strain-promoted alkyne-azide cycloaddition (SPAAC) with molecules containing Azide groups.	
IC₅₀ & Target	Cleavable Linker	PEGs
In Vitro	PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins.	

ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Adam TIBBLES, et al. Engineered O-glycosylation in recombinant polypeptides via heterologous glycosylation sites. WO201912234A1.

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

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