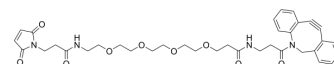


DBCO-PEG4-Maleimide

Cat. No.:	HY-120770
CAS No.:	1480516-75-3
Molecular Formula:	C ₃₆ H ₄₂ N ₄ O ₉
Molecular Weight:	674.74
Target:	ADC Linker
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	4°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 : 50 mg/mL (74.10 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		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	0.7410 mL	1.4821 mL
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 (3.71 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (3.71 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.71 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	DBCO-PEG4-Maleimide is a cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs) ^[1] . DBCO-PEG4-Maleimide 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
In Vitro	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]. Xiaotian Zhong, et al. Capped and uncapped antibody cysteines, and their use in antibody-drug conjugation. WO2017025897A2.

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

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