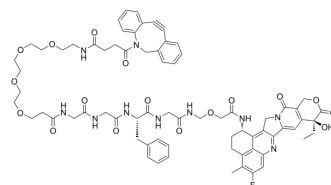


DBCO-PEG4-GGFG-Dxd

Cat. No.:	HY-134723
CAS No.:	2694856-51-2
Molecular Formula:	C ₇₂ H ₇₉ FN ₁₀ O ₁₇
Molecular Weight:	1375.45
Target:	Drug-Linker Conjugates for ADC
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (36.35 mM); ultrasonic and warming and heat to 60°C					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		0.7270 mL	3.6352 mL	7.2703 mL
		5 mM		0.1454 mL	0.7270 mL	1.4541 mL
		10 mM		0.0727 mL	0.3635 mL	0.7270 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (1.82 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (1.82 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (1.82 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	DBCO-PEG4-GGFG-Dxd is a agent-linker conjugate for ADC with potent antitumor activity by using Dxd (a DNA topoisomerase I inhibitor), linked via the cleavable ADC linker DBCO-PEG4-GGFG ^[1] . DBCO-PEG4-GGFG-Dxd is a click chemistry reagent, it contains a DBCO group that can undergo strain-promoted alkyne-azide cycloaddition (SPAAC) with molecules containing Azide groups.
IC ₅₀ & Target	Traditional Cytotoxic Agents
In Vitro	ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linke ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Anish Thomas, et al. Antibody-drug conjugates for cancer therapy. Lancet Oncol. 2016 Jun;17(6):e254-e262.

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

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