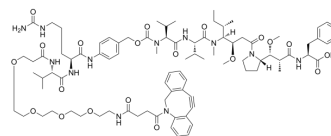


## DBCO-PEG4-Val-Cit-PAB-MMAF

Cat. No.:	HY-130990
CAS No.:	2244602-23-9
Molecular Formula:	C <sub>88</sub> H <sub>126</sub> N <sub>12</sub> O <sub>20</sub>
Molecular Weight:	1672.01
Target:	Drug-Linker Conjugates for ADC
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (149.52 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions	1 mM	1 mg	5 mg	10 mg
		5 mM	0.1196 mL	0.5981 mL	1.1962 mL
		10 mM	0.0598 mL	0.2990 mL	0.5981 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: 6.25 mg/mL (3.74 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 6.25 mg/mL (3.74 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 6.25 mg/mL (3.74 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

Description	DBCO-PEG4-Val-Cit-PAB-MMAF consists a cleavable 4 unit PEG ADC linker (DBCO-PEG4-Val-Cit-PAB) and a potent tubulin polymerization inhibitor (MMAF). DBCO-PEG4-Val-Cit-PAB-MMAF can be used in the synthesis of antibody-drug conjugates (ADCs) <sup>[1]</sup> . DBCO-PEG4-Val-Cit-PAB-MMAF 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 <sub>50</sub> & Target	Auristatin
In Vitro	ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

---

## REFERENCES

---

[1]. Beck A, et al. Strategies and challenges for the next generation of antibody-drug conjugates. Nat Rev Drug Discov. 2017 May;16(5):315-337.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA