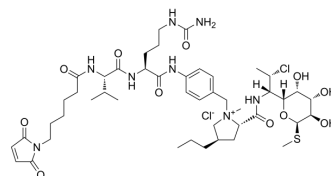


## MC-Val-Cit-PAB-clindamycin

<b>Cat. No.:</b>	HY-128907
<b>CAS No.:</b>	1639793-13-7
<b>Molecular Formula:</b>	C <sub>46</sub> H <sub>72</sub> Cl <sub>2</sub> N <sub>8</sub> O <sub>11</sub> S
<b>Molecular Weight:</b>	1016.08
<b>Target:</b>	Drug-Linker Conjugates for ADC
<b>Pathway:</b>	Antibody-drug Conjugate/ADC Related
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 110 mg/mL (108.26 mM; Need ultrasonic)																							
	<table border="1"> <thead> <tr> <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><b>Preparing Stock Solutions</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td>0.9842 mL</td> <td>4.9209 mL</td> <td>9.8417 mL</td> </tr> <tr> <td>5 mM</td> <td>0.1968 mL</td> <td>0.9842 mL</td> <td>1.9683 mL</td> </tr> <tr> <td>10 mM</td> <td>0.0984 mL</td> <td>0.4921 mL</td> <td>0.9842 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	<b>Preparing Stock Solutions</b>				1 mM	0.9842 mL	4.9209 mL	9.8417 mL	5 mM	0.1968 mL	0.9842 mL	1.9683 mL	10 mM	0.0984 mL	0.4921 mL	0.9842 mL
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	Please refer to the solubility information to select the appropriate solvent.																							
<b>In Vivo</b>	<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: ≥ 2.5 mg/mL (2.46 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.46 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (2.46 mM); Clear solution</li> </ol>																							

### BIOLOGICAL ACTIVITY

<b>Description</b>	MC-Val-Cit-PAB-clindamycin is a agent-linker conjugate for ADC with potent antitumor activity by using clindamycin (a protein synthesis inhibitor), linked via the ADC linker MC-Val-Cit-PAB.
<b>IC<sub>50</sub> &amp; Target</b>	Traditional Cytotoxic Agents

### REFERENCES

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[1]. Staben LR, et al. Targeted drug delivery through the traceless release of tertiary and heteroaryl amines from antibody-drug conjugates. Nat Chem. 2016 Dec;8(12):1112-1119.

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

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