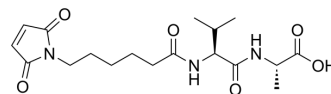


MC-Val-Ala-OH

Cat. No.:	HY-101153
CAS No.:	1342211-31-7
Molecular Formula:	C ₁₈ H ₂₇ N ₃ O ₆
Molecular Weight:	381.42
Target:	ADC Linker
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (655.45 mM; Need ultrasonic)																	
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>2.6218 mL</td> <td>13.1089 mL</td> <td>26.2178 mL</td> </tr> <tr> <td>5 mM</td> <td>0.5244 mL</td> <td>2.6218 mL</td> <td>5.2436 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2622 mL</td> <td>1.3109 mL</td> <td>2.6218 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM	2.6218 mL	13.1089 mL	26.2178 mL	5 mM	0.5244 mL	2.6218 mL	5.2436 mL	10 mM	0.2622 mL	1.3109 mL	2.6218 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: ≥ 2.08 mg/mL (5.45 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.45 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.45 mM); Clear solution 																	

BIOLOGICAL ACTIVITY

Description	MC-Val-Ala-OH is a cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs) ^[1] .	
IC₅₀ & Target	Protease Cleavable	Cleavable
In Vitro	ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker ^[1] . 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.

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