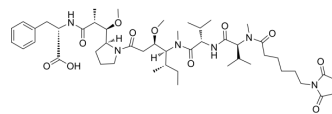


## McMMAF

<b>Cat. No.:</b>	HY-15578
<b>CAS No.:</b>	863971-19-1
<b>Molecular Formula:</b>	C <sub>49</sub> H <sub>76</sub> N <sub>6</sub> O <sub>11</sub>
<b>Molecular Weight:</b>	925.16
<b>Target:</b>	Drug-Linker Conjugates for ADC
<b>Pathway:</b>	Antibody-drug Conjugate/ADC Related
<b>Storage:</b>	-20°C, stored under nitrogen * The compound is unstable in solutions, freshly prepared is recommended.



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : ≥ 100 mg/mL (108.09 mM)					
	* "≥" means soluble, but saturation unknown.					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.0809 mL	5.4045 mL	10.8089 mL
<b>5 mM</b>			0.2162 mL	1.0809 mL	2.1618 mL	
	<b>10 mM</b>		0.1081 mL	0.5404 mL	1.0809 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (5.40 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (5.40 mM); Clear solution					
	3. Add each solvent one by one: 1% DMSO >> 99% saline Solubility: ≥ 0.5 mg/mL (0.54 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	McMMAF is a protective group (maleimidocaproyl)-conjugated MMAF, which is a potent tubulin polymerization inhibitor. McMMAF can be used as a agent-linker for antibody-drug conjugates (ADC). McMMAF is uncleavable, and must be internalized and degraded within a cell, releasing cysteine-McMMAF as the active agent <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Auristatin

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## CUSTOMER VALIDATION

- J Control Release. 2020 Nov 10;327:186-197.
- Anal Chem. 2022 Feb 1.
- Patent. US10087260B2.
- Patent. US20160304621A1.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

- [1]. Polson AG, et al. Antibody-drug conjugates for the treatment of non-Hodgkin's lymphoma: target and linker-drug selection. Cancer Res. 2009 Mar 15;69(6):2358-2364.
- [2]. Jianmin Fang, et al. Anti-her2 antibody and conjugate thereof. US 20160304621 A1.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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