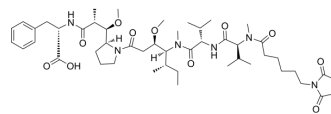


McMMAF

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (108.09 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.0809 mL	5.4045 mL	10.8089 mL
	5 mM	0.2162 mL	1.0809 mL	2.1618 mL
	10 mM	0.1081 mL	0.5404 mL	1.0809 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 5 mg/mL (5.40 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 5 mg/mL (5.40 mM); Clear solution
- Add each solvent one by one: 1% DMSO >> 99% saline
Solubility: ≥ 0.5 mg/mL (0.54 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

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^{[1][2]}.

IC₅₀ & Target

Auristatin

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

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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