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产品名称: MMAF-OMe

产品别名: Monomethyl auristatin F methyl ester

生物活性:				
Description	MMAF-Ome, an antitubulin agent, belongs to ADC. MMAF-Ome inhibits several tumor cell lines with IC50s of 0.056 nM, 0.166 nM, 0.183 nM, and 0.449 nM for MDAMB435/5T4, MDAMB361DYT2, MDAMB468, and Raji (5T4-) cell lines, respectively.			
IC ₅₀ & Target	Auristatin			
In Vitro	2.5F-Fc and 2.5F-Fc-MMAF have similar IC50 values (6.9±1.1 vs. 8.3±1.3 nM, respectively), indicating that MMAF conjugation has negligible impact on integrin-binding affinity[1].			
Solvent&Solubility	In Vitro: DMSO : ≥ 100 mg/mL (134.05 mM) * "≥" means soluble, but saturation unknown.			
	Preparing Stock Solutions	Solvent	Mass	Concentration
		1 mg	5 mg	10 mg
		1 mM	1.3405 mL	6.7025 mL
		5 mM	0.2681 mL	1.3405 mL
		10 mM	0.1341 mL	0.6703 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液, 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。 In Vivo: 请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液, 再依次添加助溶剂: ——为保证实验结果的可靠性, 澄清的储备液可以根据储存条件, 适当保存; 体内实验的工作液, 建议您现用现配, 当天使用; 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比; 如在配制过程中出现沉淀、析出现象, 可以通过加热和/或超声的方式助溶 1.请依序添加每种溶剂: 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: ≥ 2.5 mg/mL (3.35 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (3.35 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中, 混合均匀, 向上述体系中加入 50 μL Tween-80, 混合均匀; 然后继续加入 450 μL 生理盐水定容至 1 mL。 2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.35 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (3.35 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水水溶液中, 混合均匀。 3.请依序添加每种溶剂: 10% DMSO →90% corn oil			



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	Solubility: ≥ 2.5 mg/mL (3.35 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (3.35 mM, 饱和度未知) 的澄清溶液, 此方案不适用于实验周期在半个月以上的实验。 以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。
References	[1]. Currier NV, et al. Targeted Drug Delivery with an Integrin-Binding Knottin-Fc-MMAF Conjugate Produced by Cell-Free Protein Synthesis. Mol Cancer Ther. 2016 Jun;15(6):1291-300
实验参考:	
Cell Assay	Cells are seeded in a 96-well plate at a density of 2,000 cells per well and grown overnight at 37°C, 5% CO₂ in the media described for each cell line above. Cells are subsequently treated with 100 μL of fresh media, containing varying concentrations of knottin-Fc fusion proteins or linker-modified MMAF, and incubated for 5 days at 37°C, 5% CO₂. Cell proliferation is measured using the Cell Counting Kit-8 (CCK-8), by adding the water-soluble tetrazolium salt, WST-8, to each well in an amount equal to 10% of the culture volume. After incubation for 1 hour at 37°C, absorbance at 450 nm is measured with a Synergy H4 microtiter plate reader. Cell proliferation is expressed as a percentage of absorbance relative to the control of untreated cells. Percent maximum proliferation is then reported as (sample - background)/(control - background) $\times$ 100. Error bars represent the SD of experiments performed in triplicate. [1]
References	[1]. Currier NV, et al. Targeted Drug Delivery with an Integrin-Binding Knottin-Fc-MMAF Conjugate Produced by Cell-Free Protein Synthesis. Mol Cancer Ther. 2016 Jun;15(6):1291-300

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