



上海源叶生物科技有限公司
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产品名称: Mafodotin

产品别名: McMMAF; Maleimidocaproyl monomethylauristatin F

生物活性:

Description	McMMAF is a protective group-conjugated MMAF. MMAF is a potent tubulin polymerization inhibitor.																										
IC ₅₀ & Target	Auristatin																										
In Vitro	MMAF is a new auristatin derivative with a charged C-terminal phenylalanine that attenuates its cytotoxic activity compared to its uncharged counterpart, Monomethyl auristatin E (MMAE). Because of MMAF is highly toxic, it cannot be used as a drug itself. MMAF induces potent antitumor effects when conjugated via protease cleavable linkers to a monoclonal antibody targeting internalizing, tumor-specific cell surface antigens. The linker to the monoclonal antibody is stable in extracellular fluid, but is cleaved by cathepsin once the conjugate has entered a tumor cell, thus activating the anti-mitotic mechanism.																										
	In Vitro: DMSO : ≥ 100 mg/mL (108.09 mM) * "≥" means soluble, but saturation unknown. <table border="1"><thead><tr><th rowspan="2">Preparin</th><th>Solvent</th><th>Mass</th><th rowspan="2">1 mg</th><th rowspan="2">5 mg</th><th rowspan="2">10 mg</th></tr><tr><th>Concentration</th><th></th></tr></thead><tbody><tr><td>Stock Solutions</td><td>1 mM</td><td>1.0809 mL</td><td>5.4045 mL</td><td>10.8089 mL</td></tr><tr><td></td><td>5 mM</td><td>0.2162 mL</td><td>1.0809 mL</td><td>2.1618 mL</td></tr><tr><td></td><td>10 mM</td><td>0.1081 mL</td><td>0.5404 mL</td><td>1.0809 mL</td></tr></tbody></table>				Preparin	Solvent	Mass	1 mg	5 mg	10 mg	Concentration		Stock Solutions	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
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Solvent&Solubility	<p>*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。</p> <p>储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month (stored under nitrogen)。-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。</p> <p>In Vivo:</p> <p>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：</p> <p>——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</p> <p>1.请依序添加每种溶剂: 10% DMSO → 40% PEG300 → 5% Tween-80 → 45% saline</p> <p>Solubility: ≥ 5 mg/mL (5.40 mM); Clear solution</p> <p>此方案可获得 ≥ 5 mg/mL (5.40 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例，取 100 μL 50.0 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。</p> <p>2.请依序添加每种溶剂: 10% DMSO → 90% corn oil</p> <p>Solubility: ≥ 5 mg/mL (5.40 mM); Clear solution</p> <p>此方案可获得 ≥ 5 mg/mL (5.40 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。</p> <p>以 1 mL 工作液为例，取 100 μL 50.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。</p>																										



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References

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| [1]. Polson AG, et al. Antibody-drug conjugates for the treatment of non-Hodgkin's lymphoma: target and linker-drug selection. <i>Cancer Res.</i> 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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