

产品名称：**Remodelin (hydrobromide)**
产品别名：**Remodelin hydrobromide**

生物活性：																					
Description	Remodelin hydrobromide is a novel potent and selective inhibitor of the acetyl-transferase protein NAT10. IC50 value: Target: NAT10 inhibitor Remodelin can improve nuclear architecture, chromatin organization, and fitness of both human lamin A/C-depleted cells and HGPS-derived patient cells, and decrease markers of DNA damage in these cells. Using a combination of chemical, cellular, and genetic approaches, acetyl-transferase protein NAT10 was identified as the target of Remodelin that mediated nuclear shape rescue in laminopathic cells via microtubule reorganization. Down-regulation and mutations of the nuclear-architecture proteins lamin A and C cause misshapen nuclei and altered chromatin organization associated with cancer and laminopathies, including the premature-aging disease Hutchinson-Gilford progeria syndrome (HGPS). Remodelin is a useful chemical tool to study how NAT10 affects nuclear architecture and suggest alternative strategies for treating laminopathies and aging.																				
	<p>In Vitro:</p> <p>DMSO : ≥ 44 mg/mL (121.12 mM)</p> <p>H₂O : < 0.1 mg/mL (insoluble)</p> <p>* "≥" means soluble, but saturation unknown.</p> <table><tr><td rowspan="4">Preparing Stock Solutions</td><td><div>Solvent / Mass Concentration</div></td><td>1 mg</td><td>5 mg</td><td>10 mg</td></tr><tr><td>1 mM</td><td>2.7527 mL</td><td>13.7635 mL</td><td>27.5270 mL</td></tr><tr><td>5 mM</td><td>0.5505 mL</td><td>2.7527 mL</td><td>5.5054 mL</td></tr><tr><td>10 mM</td><td>0.2753 mL</td><td>1.3763 mL</td><td>2.7527 mL</td></tr></table> <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℃, 6 months; -20℃, 1 month。-80℃ 储存时，请在 6 个月内使用，-20℃ 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> <div><p>1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline</p><p>Solubility: ≥ 2.5 mg/mL (6.88 mM); Clear solution</p><p>此方案可获得 ≥ 2.5 mg/mL (6.88 mM，饱和度未知) 的澄清溶液。</p><p>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。</p></div> <div><p>2.请依序添加每种溶剂： 10% DMSO→ 90% (20% SBE-β-CD in saline)</p><p>Solubility: ≥ 2.5 mg/mL (6.88 mM); Clear solution</p><p>此方案可获得 ≥ 2.5 mg/mL (6.88 mM，饱和度未知) 的澄清溶液。</p><p>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 生理盐水中，混合均匀。</p></div>					Preparing Stock Solutions	<div>Solvent / Mass Concentration</div>	1 mg	5 mg	10 mg	1 mM	2.7527 mL	13.7635 mL	27.5270 mL	5 mM	0.5505 mL	2.7527 mL	5.5054 mL	10 mM	0.2753 mL	1.3763 mL
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Solvent&Solubility																					

	<p>3.请依序添加每种溶剂： 10% DMSO →90% corn oil</p> <p>Solubility: ≥ 2.5 mg/mL (6.88 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (6.88 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 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。</p>
References	<p>[1]. Larrieu D, et al. Chemical inhibition of NAT10 corrects defects of laminopathic cells. Science. 2014 May 2;344(6183):527-32.</p>



源叶生物