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产品名称:

6-Amino-2,3-dihydro-5-[(phenylmethylene)amino]-2-4(1H)-pyrimidineone

产品别名: **L189**

生物活性:

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Description	<p>L189 is a novel human DNA ligase inhibitor, inhibits hLigI/III/IV with IC50 of 5/9/5 μM. IC50 value: 5/9/5 μM (for hLigI/III/IV) Target: DNA ligase in vitro: L189 is a competitive inhibitor with respect to nicked DNA. L189 inhibits DNA ligases I, III and IV in DNA joining assays with purified proteins and in cell extract assays of DNA replication, base excision repair and non-homologous end joining. L189 markedly increases killing of HCT116 colon cancer cells and the other cancer cell lines by ionizing radiation.</p>																	
Solvent&Solubility	<p><i>In Vitro:</i></p> <p>DMSO : ≥ 33 mg/mL (133.99 mM)</p> <p>* ">" means soluble, but saturation unknown.</p>																	
	<table><tr><td rowspan="4">Preparing Stock Solutions</td><td><div>SolventMassConcentration</div></td><td>1 mg</td><td>5 mg</td><td>10 mg</td></tr><tr><td>1 mM</td><td>4.0603 mL</td><td>20.3013 mL</td><td>40.6025 mL</td></tr><tr><td>5 mM</td><td>0.8121 mL</td><td>4.0603 mL</td><td>8.1205 mL</td></tr><tr><td>10 mM</td><td>0.4060 mL</td><td>2.0301 mL</td><td>4.0603 mL</td></tr></table>	Preparing Stock Solutions	<div>SolventMassConcentration</div>	1 mg	5 mg	10 mg	1 mM	4.0603 mL	20.3013 mL	40.6025 mL	5 mM	0.8121 mL	4.0603 mL	8.1205 mL	10 mM	0.4060 mL	2.0301 mL	4.0603 mL
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<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><i>In Vivo:</i></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: ≥ 2.5 mg/mL (10.15 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (10.15 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>																		
References	<p>[1]. Xi Chen, Shijun Zhong, Xiao Zhu, et al. Rational Design of Human DNA Ligase Inhibitors that Target Cellular DNA Replication and Repair. Cancer Res 2008; 68: (9). May 1, 2008</p>																	