

产品名称: ID 8

产品别名: ID-8

生物活性:																						
Description		ID-8 is a DYRK inhibitor, and sustains embryonic stem cell self-renewal in long-term culture. IC50 Value: Target: DYRK in vitro: the combination of Wnt and ID-8 enhanced hESC replating efficiency, and colonies expressed ALP and displayed undifferentiated morphology. members of the DYRK family are direct targets of ID-8 and that ID-8 enhances Wnt-mediated hESC survival and proliferation via inhibition of DYRKs [1]. ID-8 stimulated proliferation at a steady rate similar to LIF. ID-8 is required to maintain nanog, Sox2, and Rex-1 gene expression [2]. In vivo:																				
		In Vitro: DMSO : ≥ 47 mg/mL (157.56 mM) * "≥" means soluble, but saturation unknown.																				
		<table border="1"><thead><tr><th rowspan="2">Preparing Stock Solutions</th><th>Solvent / Mass Concentration</th><th>1 mg</th><th>5 mg</th><th>10 mg</th></tr></thead><tbody><tr><td>1 mM</td><td>3.3524 mL</td><td>16.7622 mL</td><td>33.5244 mL</td></tr><tr><td>5 mM</td><td>0.6705 mL</td><td>3.3524 mL</td><td>6.7049 mL</td></tr><tr><td>10 mM</td><td>0.3352 mL</td><td>1.6762 mL</td><td>3.3524 mL</td></tr></tbody></table>				Preparing Stock Solutions	Solvent / Mass Concentration	1 mg	5 mg	10 mg	1 mM	3.3524 mL	16.7622 mL	33.5244 mL	5 mM	0.6705 mL	3.3524 mL	6.7049 mL	10 mM	0.3352 mL	1.6762 mL	3.3524 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。 -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: 2.5 mg/mL (8.38 mM); Suspended solution; Need ultrasonic</p> <p>此方案可获得 2.5 mg/mL (8.38 mM) 的均匀悬浊液, 悬浊液可用于口服和腹腔注射。</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]. Hasegawa, K., et al., Wnt signaling orchestration with a small molecule DYRK inhibitor provides long-term xeno-free human pluripotent cell expansion. <i>Stem Cells Transl Med</i>, 2012. 1(1): p. 18-28.</p> <p>[2]. Miyabayashi, T., et al., Indole derivatives sustain embryonic stem cell self-renewal in long-term culture. <i>Biosci Biotechnol Biochem</i>, 2008. 72(5): p. 1242-8.</p>																				