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产品名称: **Torcetrapib**  
 产品别名: 托彻普; **CP-529414**

生物活性:																												
Description	<p>Torcetrapib(CP-529414) is a CETP inhibitor with IC50 of 37 nM, elevates HDL-C and reduces nonHDL-C in plasma. IC50 value: 37 nM [1] Target: CETP inhibitor in vitro: Torcetrapib dose-dependently increases aldosterone release from H295R cells after either 24 or 48 h of treatment with an EC50 of approximately 80 nM, this effect is mediated by calcium channel as calcium channel blockers completely blocks torcetrapib-induced corticoid release and calcium increase. Torcetrapib (1 μM) significantly increases the expression of steroidogenic gene, CYP11B2 and CYP11B1, in H295R cell lines [2]. in vivo: Torcetrapib (&lt; 100 mg, daily) changes the plasma distribution of CETP, as the apparent molecular weight of the CETP has shifted to a larger form, by 2 hours after the dose in healthy young subjects. Torcetrapib treatment with 10 mg, 30 mg, 60 mg, and 120 mg daily and 120 mg twice daily results in 16%, 28%, 62%, 73%, and 91% increases in plasma HDL-C, respectively, with no significant changes in TPC in healthy young subjects. [1] Torcetrapib results in an increase of 72.1% in high-density lipoprotein cholesterol and a decrease of 24.9% in low-density lipoprotein cholesterol, in addition to an increase of 5.4 mm Hg in systolic blood pressure, a decrease in serum potassium, and increases in serum sodium, bicarbonate, and aldosterone, in patients at high cardiovascular risk after 12 months' treatment [3]. Torcetrapib (90 mg/kg/day) results in a 70% inhibition of CE transfer in rabbits fed an atherogenic diet. Torcetrapib (90 mg/kg/day) increases mean HDL-C levels by above 3-fold and apoA-I levels by 2.5-fold in plasma in rabbits fed an atherogenic diet. Torcetrapib-treated animal has a multiple-fold increase in HDL-C AUC and a corresponding reduction in aortic lesion area with 60% reduction of aortic free cholesterol (FC) and cholesteryl ester (EC) in rabbits fed an atherogenic diet. Torcetrapib-treated rabbits stimulate free cholesterol efflux to a significantly greater extent than does sera from control rabbits [4].</p>																											
	<p><b>In Vitro:</b>  <b>DMSO : ≥ 100 mg/mL (166.54 mM)</b>            * "≥" means soluble, but saturation unknown.</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Solvent</th> <th rowspan="2">1 mg</th> <th rowspan="2">5 mg</th> <th rowspan="2">10 mg</th> </tr> <tr> <th>Mass</th> <th>Concentration</th> </tr> </thead> <tbody> <tr> <td><b>Preparing</b></td> <td>1 mM</td> <td></td> <td>1.6654 mL</td> <td>8.3268 mL</td> <td>16.6536 mL</td> </tr> <tr> <td rowspan="2"><b>Stock Solutions</b></td> <td>5 mM</td> <td></td> <td>0.3331 mL</td> <td>1.6654 mL</td> <td>3.3307 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.1665 mL</td> <td>0.8327 mL</td> <td>1.6654 mL</td> </tr> </tbody> </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。            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><b>In Vivo:</b>            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</p>					Solvent		1 mg	5 mg	10 mg	Mass	Concentration	<b>Preparing</b>	1 mM		1.6654 mL	8.3268 mL	16.6536 mL	<b>Stock Solutions</b>	5 mM		0.3331 mL	1.6654 mL	3.3307 mL	10 mM		0.1665 mL	0.8327 mL
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	<p>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→ 90% (20% SBE-β-CD in saline)</p> <p>Solubility: <math>\geq 2.5</math> mg/mL (4.16 mM); Clear solution</p> <p>此方案可获得 <math>\geq 2.5</math> mg/mL (4.16 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例, 取 100 <math>\mu</math>L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 <math>\mu</math>L 20% 的 SBE-β-CD 生理盐水水溶液中, 混合均匀。</p> <p>2.请依序添加每种溶剂: 10% DMSO →90% corn oil</p> <p>Solubility: <math>\geq 2.5</math> mg/mL (4.16 mM); Clear solution</p> <p>此方案可获得 <math>\geq 2.5</math> mg/mL (4.16 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 <math>\mu</math>L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 <math>\mu</math>L 玉米油中, 混合均匀。</p>
<b>References</b>	<p>[1]. Clark RW, et al. Raising high-density lipoprotein in humans through inhibition of cholesteryl ester transfer protein: an initial multidose study of torcetrapib. <i>Arterioscler Thromb Vasc Biol.</i> 2004 Mar;24(3):490-7.</p> <p>[2]. Hu X, et al. Torcetrapib induces aldosterone and cortisol production by an intracellular calcium-mediated mechanism independently of cholesteryl ester transfer protein inhibition. <i>Endocrinology.</i> 2009 May;150(5):2211-9.</p> <p>[3]. Barter PJ, et al. Effects of torcetrapib in patients at high risk for coronary events. <i>N Engl J Med.</i> 2007 Nov 22;357(21):2109-22.</p> <p>[4]. Morehouse LA, et al. Inhibition of CETP activity by torcetrapib reduces susceptibility to diet-induced atherosclerosis in New Zealand White rabbits. <i>J Lipid Res.</i> 2007 Jun;48(6):1263-72.</p>

源叶生物