

产品名称: **N-([1-[(4-氯苯基)氨基]-1-氧代-2-丙基]氧基)-3,5-二(三氟甲基)苯甲酰胺**  
 产品别名: **CCG-1423**

生物活性:					
Description	CCG-1423 is a novel inhibitor of RhoA/C-mediated gene transcription that is capable of inhibiting invasion of PC-3 prostate cancer cells in a Matrigel model of metastasis. IC50 value: 1.5 uM [1] Target: Rho signaling inhibitor in vitro: CCG-1423 selectively inhibited spontaneous PC-3 prostate cancer cell invasion through a Matrigel matrix, but not the Gai-dependent LPA-stimulated SKOV-3 ovarian cancer cell invasion, in vitro. At 100 μM, nearly complete inhibition of invasion was achieved with a lesser degree of toxicity than that induced by CCG-1423 at 10 μM [1]. SRF binds to this site in vivo and the SRF inhibitor CCG-1423 completely blocks STARS proximal reporter activity in H9c2 cells [3]. pharmacological MKL-inhibition with CCG-1423 significantly inhibited CCN1 promoter activity as well as mRNA and protein expression[4]. in vivo: Pharmacological SRF inhibition by CCG-1423 reduced nuclear MKL1 and improved glucose uptake and tolerance in insulin-resistant mice in vivo [2].				
	<p><b>In Vitro:</b></p> <p><b>DMSO : ≥ 26 mg/mL (57.17 mM)</b></p> <p><b>H<sub>2</sub>O : &lt; 0.1 mg/mL (insoluble)</b></p> <p>* "≥" means soluble, but saturation unknown.</p>				
Solvent&Solubility	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.1990 mL	10.9951 mL	21.9901 mL
		5 mM	0.4398 mL	2.1990 mL	4.3980 mL
		10 mM	0.2199 mL	1.0995 mL	2.1990 mL
	<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><b>In Vivo:</b></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 <b>In Vitro</b> 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 (5.50 mM); Clear solution</p><p>此方案可获得 ≥ 2.5 mg/mL (5.50 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 (5.50 mM); Suspended solution; Need ultrasonic</p><p>此方案可获得 2.5 mg/mL (5.50 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 900 μL 20% 的 SBE-β-CD 生理</p></div>				

	<p>盐水水溶液中，混合均匀。</p> <p>3.请依序添加每种溶剂： 10% DMSO →90% corn oil</p> <p>Solubility: <math>\geq 2.5</math> mg/mL (5.50 mM); Clear solution</p> <p>此方案可获得 <math>\geq 2.5</math> mg/mL (5.50 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>
References	<p>[1]. Evelyn CR, et al. Design, synthesis and prostate cancer cell-based studies of analogs of the Rho/MKL1 transcriptional pathway inhibitor, CCG-1423. <i>Bioorg Med Chem Lett</i>. 2010 Jan 15;20(2):665-72.</p> <p>[2]. Jin W, et al. Increased SRF transcriptional activity in human and mouse skeletal muscle is a signature of insulin resistance. <i>J Clin Invest</i>. 2011 Mar;121(3):918-29.</p> <p>[3]. Chong NW, et al. STARS is essential to maintain cardiac development and function in vivo via a SRF pathway. <i>PLoS One</i>. 2012;7(7):e40966.</p> <p>[4]. Duggirala A, et al. cAMP-induced actin cytoskeleton remodelling inhibits MKL1-dependent expression of the chemotactic and pro-proliferative factor, CCN1. <i>J Mol Cell Cardiol</i>. 2014 Nov 18;79C:157-168.</p>

源叶生物