For Research Use Only CHIR-99021



Catalog Number: CM00839

产品信息	Catalog Number: CM00839 CAS号: 252917-06-9 分子式: C ₂₂ H ₁₈ Cl ₂ N ₈ 主要靶点: Wnt/beta-catenin GSK- 3 Autophagy 主要通路: 细胞骨架(干细胞 干细 胞 PI3K/Akt/mTOR 信号通路 自噬	分子量: 465.34 溶解度: 10% DMSO+40% PEG300+5% Tween 80+45% Saline:0.93 mg/mL (2 mM);DMSO:50 mg/mL (107.45 mM)		
靶点活性	GSK-3 β :6.7 nM (cell free) GSK-3 α :10 nM	GSK-3 β :6.7 nM (cell free) GSK-3 α :10 nM (cell free)		
体外活性	方法: 小鼠干细胞 ES-D3 用 CHIR-99021 量依赖性地抑制 ES-D3 细胞生长, IC50 为 99021 (3? μ M) 处理 24 h,使用 immunof F9-mEC 细胞的细胞质和细胞核中的β-连 使用 Western Blot 方法检测靶点蛋白表达 减少。[3]	方法 :小鼠干细胞 ES-D3 用 CHIR-99021 (1-10 μ M) 处理 72 h,使用 MTT 方法检测细胞生长抑制情况。结果:CHIR-99021 剂 量依赖性地抑制 ES-D3 细胞生长,IC50 为 49 μ M。[1]方法:小鼠胚胎干细胞 11 mESCs 和小鼠胚胎瘤细胞 F9 mEC 用 CHIR- 99021 (3? μ M) 处理 24 h,使用 immunofluorescence 方法检测靶点蛋白表达水平。结果:CHIR-99021 处理后,J1-mESCs 和 F9-mEC 细胞的细胞质和细胞核中的 β-连环蛋白增加。[2]方法:人 Tenon 成纤维细胞 HTFs 用 CHIR-99021 (5 μ M) 处理 48 h, 使用 Western Blot 方法检测靶点蛋白表达水平。结果:CHIR-99021 处理使活性形式的 GSK-3 β (p-GSK-3 β (Y216)) 的产生显著 减少。[3]		
体内活性	方法:为检测体内抗肿瘤活性,将 CHIR- mg/kg/第 0天单次给药)腹腔注射给携带 体内协同作用,抑制 NSCLC 肿瘤的生长。 用,将 CHIR-99021 (1-10 mg/kg) 単次腹 增加了酒精强化反应,而对蔗糖自我给药 NAcb 中降低了 PICK1 并增加了 GluA2 的,	99021 (37.5 mg/kg/第 0-3、6-10、13-17 和 20 ラ 人非小细胞肺癌肿瘤 H1975 的 Balb/c nude 小鼠 [4] 方法:为研究 GSK-3 的直接药理学抑制是否 腔注射给有酒精或蔗糖自给药史的 C57BL/6J 小顧 或运动活性没有影响。CHIR-99021 显著降低了 p 总表达。[5]	氏每天两次)口服给药和 paclitaxel (10。结果: CHIR-99021和 paclitaxel在会改变酒精在小鼠体内的积极增强作。结果: CHIR-99021剂量依赖性地GSK-3β在所有测试脑区的表达,仅在	
动物实验	Blood was obtained by shallow tail s directly or heparinized plasma was and randomized to vehicle control o animals fasted throughout the provi plasma glucose and insulin changes agent administration. The glucose o (oGTT). CHIR-99021 were formulate suspensions in 0.5% carboxymethy	snipping at lidocaine-anesthetized tips. B collected for measurement of glucose or or GSK-3 inhibitor treatment groups. For g cedure with food removal early in the mor ous night, 16 h before the bleed (ZDF rats s in fasting ZDF rats was measured, food w challenges in the GTT were 1.35 g/kg i.p. (i cd as solutions in 20 mmol/l citrate-buffer ylcellulose [1].	lood glucose was measured insulin. Animals were pre-bled flucose tolerance tests (GTTs), ning, 3 h before the first). When the time course of vas removed ~16 h before test pGTT) or 2 g/kg via oral gavage red 15% Captisol or as fine	
细胞实验	The Wnt/beta-catenin reporter assa FOPFlash vector containing the fire bindings sites. 12,500 cells were se cell medium. On the next day, the ca aforementioned vectors plus pGL4. transfection control. Six hours after reduced serum, and supplemented employed 48 and 72 h after the me detection system [4].	ay was performed with the M50 Super 8× ⁻ fly luciferase gene under the control of T eeded overnight on gelatine-coated 96-w ells were transfected using Lipofectamin .75 [hRluc/CMV] encoding the renilla lucif r transfection the medium was changed to with 5 µ M CHIR-99021. The Dual-Lucifer dium change to follow the luminescence	TOPFlash and M51 Super 8× CF/LEF binding sites or mutated ell plates in LIF-containing ES e with one of the erase reporter gene hRluc as a o medium devoid of LIF, with ase? reporter assay system was reaction using a GloMax?-multi	
储存	store at low temperature Powder:	-20°C for 3 years In solvent: -80°C for 1 y	ear Shipping with blue ice.	

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.