For Research Use Only Regorafenib



Catalog Number: CM03590

| 产品信息 | Catalog Number: CM03590 CAS号: 755037-03-7 分子式: C ₂₁ H ₁₅ ClF ₄ N ₄ O ₃ 主要報点: PDGFR[c-Kit Autophagy[c- RET[Raf]/EGFR 主要通路: 蛋白酪氨酸激酶 调亡 自噬 血管生 成 MAPK信号通路 | 分子量: 482.82 溶解度: DMSO:90 mg/mL(186.4 mM),H2O: <1 mg/mL,Ethanol:<1 mg/mL | | |
|---|--|--|--|--|
| 靶点活性 | B-Raf (V600E):19 nM (cell free) Kit:7 nM (ce free) VEGFR2:4.2 nM (cell free) | B-Raf (V600E):19 nM (cell free) Kit:7 nM (cell free) Raf-1:2.5 nM (cell free) VEGFR1:13 nM (cell free) RET:1.5 nM (cell free) VEGFR2:4.2 nM (cell free) | | |
| 体外活性 | Regorafenib potently inhibited a distinct se PDGFR-b (IC50s: 4-311 nM), and the oncoge and BRAF and its V600E mutant (IC50s: 1.5- 3T3/VEGFR2 cells (IC50: 3 nM). In HAoSMC BB (IC50: 90 nM) [1]. Regorafenib caused a cells were similar in their responses to Hep | Regorafenib potently inhibited a distinct set of kinases, including the angiogenic and stromal RTKs VEGFR1-3, TIE2, FGFR1 and PDGFR-b (IC50s: 4-311 nM), and the oncogenic RTKs KIT and RET, along with the intracellular signaling kinases c-RAF/RAF-1 and BRAF and its V600E mutant (IC50s: 1.5-28 nM). Regorafenib potently inhibited VEGFR2 autophosphorylation in NIH-3T3/VEGFR2 cells (IC50: 3 nM). In HAoSMCs, regorafenib inhibited PDGFR-b autophosphorylation after stimulation with PDGF-BB (IC50: 90 nM) [1]. Regorafenib caused a concentration-dependent decrease in Hep3B cell growth (IC50: 5 μ M). PLC/PRF/5 cells were similar in their responses to Hep3B cells, but HepG2 cells were more sensitive (IC50: 1 μ M) [2]. | | |
| 体内活性 | Treating tumor-bearing rats with a single o perfusion and extravasation of the contrast after regorafenib treatment and persisted f tumor growth in a dose-dependent manner (MDA-MB-231) and RCC (786-O) tumors. Re xenografts, reaching a TGI of ~75% at day 2 M-5 significantly inhibited tumor growth ve in mice after repeated oral dosing with reg | Treating tumor-bearing rats with a single oral dose of regorafenib at 10 mg/kg caused a significant decrease in tumor perfusion and extravasation of the contrast agent. A significant reduction of the normalized IAUC360 was observed by 10 hr after regorafenib treatment and persisted for up to 2 days when compared with vehicle. Regorafenib dosed qd orally inhibited tumor growth in a dose-dependent manner in multiple xenograft models, including models derived from CRC (Colo-205), BC (MDA-MB-231) and RCC (786-O) tumors. Regorafenib (10–100 mg/kg) effectively inhibited the growth of the Colo-205 xenografts, reaching a TGI of ~75% at day 14 at the 10 mg/kg dose [1]. In murine xenograft models, oral regorafenib, M-2, and M-5 significantly inhibited tumor growth versus controls. Total peak plasma drug concentrations and exposure to M-2 and M-5 in mice after repeated oral dosing with regorafenib 10 mg/kg/day were comparable to those in humans [3]. | | |
| 动物实验 | Female athymic NCr nu/nu mice, kept with 5×10^6 Colo-205 or MDAMB-23: reached a volume of ~100 mm^3, reg model, and qd×9 in the Colo-205 and Paclitaxel was administered intraven (12.5%/12.5%/75%) every 2 days×5. percentage of tumor growth inhibitic were weighed every other day startir was monitored daily[1]. | in accordance with Federal guideling L cells or implanted with 1 mm^3 786 orafenib or vehicle control was admi MDA-MB231 models, respectively, at ously at 10 mg/kg in ethanol/Cremop Tumor size (volume) was estimated on (TGI) was obtained from terminal t 1g from the first day of treatment. Th | es, were subcutaneously inoculated 5-0 tumor fragments. When tumors nistered orally qd ×21 in the 786-0 doses of 100, 30, 10, and 3 mg/kg. whor ELV/saline twice weekly (l×w^2)/2, and the umor weights (1-T/C100). Mice e general health status of the mice | |
| 细胞实验 | Each cell line was seeded at 0.3×10^5 The cells were incubated for 24 h to a medium containing Regorafenib at in these experimental conditions, the c Hep3B cells were performed with 7.5 h) or long times (up to seven days). W fresh one. Each experiment included the one used for adding Regorafenib Subsequent analyses were performed | ; cells/2ml of DMEM containing 10% illow attachment, and then the medii creasing concentrations (1 μ M, 2.5 μ ells were allowed to grow for 72 or 9 μ M of Regorafenib at short (15, 60, hen the cells were treated for long ti a control with the equivalent concen . Each experiment was performed in μ d at specific Regorafenib concentrat | FBS in 35 mm tissue culture dishes. Jm was replaced by fresh culture μ M, 5 μ M, 7.5 μ M and 10 μ M). In 6 h. Time-course experiments on 180 min.), middle (24, 48, 72 and 96 imes the drug was replaced with a tration of DMSO (solvent control) as triplicate and repeated 3 times. ions and incubation times [2]. | |
| 描述 | Regorafenib (BAY 73-4506) is a multi-targe RAF/VEGFR2/c-Kit/VEGFR1/PDGFRβ). | argeted receptor tyrosine kinase inhibitor (IC50s: 1.5/2.5/4.2/7/13/22 nM for RET/C- | | |
| 储存 | Powder: -20°C for 3 years In solvent: | -80°C for 2 years | | |
| For technical suppor T: 027-87531629 | t and original validation data for this product please contac E: Proteintech-CN@ptglab.com W: ptgcn.com | t This pro Proteint to purcl | duct is exclusively available under ech Group brand and is not available nase from any other manufacturer. | |