For Research Use Only PLX-4720



Catalog Number: CM06265

产品信息	Catalog Number: 分子量: CM06265 413.833 CAS号: 溶解度: 918505-84-7 Ethanol:<1 mg/mL,H20:<1 分子式: rg/mL,DMS0:77 mg/mL (186.1 C ₁₇ H ₁₄ ClF ₂ N ₃ O ₃ S mM) 主要觀点: Raf 主要通路: MAPK信号通路	CI
靶点活性	B-Raf:160 nM (cell free) B-Raf (V600E):13 nM (cell free) c-Raf-1 (Y340D/Y341D):6.7 nM (cell free)	
体外活性	PLX4720 inhibits B-Raf(V600E) with an IC50 of 13 nM. Consistent with the high degree of selectivity, ERK phosphorylatio potently inhibited by PLX4720 in B-Raf(V600E)-bearing tumor cell lines but not in cells lacking oncogenic B-Raf[1], PLX4 treatment significantly increased BIM expression in the PTEN+ (>14-fold) compared with the PTEN- cell lines (four-fold). treatment of PTEN- cells with PLX4720 and a PI3K inhibitor enhanced BIM expression at both the mRNA and protein level increased the level of apoptosis through a mechanism involving AKT3 and the activation of FOXO3a [2].	on is 4720 . Dual l and
体内活性	In B-Raf(V600E)-dependent tumor xenograft models, orally dosed PLX4720 causes significant tumor growth delays, inclu tumor regressions, without evidence of toxicity [1]. In vivo, PLX4720 treatment of 8505c orthotopic thyroid tumors inhibi tumor aggressiveness and significantly upregulated the thyroid differentiation markers thyroid transcription factor 1 an paired box gene 8 [3]. Treatment of orthotopic thyroid tumors, initiated 1 week after tumor cell implantation with PLX47 caused a significant tumor growth delay and decreased distant metastases, without evidence of toxicity [4].	Jding ited เป 720
动物实验	Female athymic mice (NCr nu/nu) were implanted s.c. on day 0 with 30–60 mg COLO205 tumor fragment: Treatments began on day 11, when the mean estimated tumor mass was 104 mg (range, 95–113 mg). All animals were dosed with vehicle (5% DMSO, 1% methylcellulose) or PLX4720 suspended in vehicle by gavage daily for 14 consecutive days. Tumor burden (mg) was estimated from caliper measurements [1]	s.
细胞实验	Cells are treated with various concentrations PLX-4720 for 24, 48, and 72 hours. Cell proliferation is measured by using the CellTiter-Glo Luminescent Cell Viability Assay or MTT assay. For cell cycle analysis supernatant and cells are collected, pelleted, and fixed with 70% ethanol. Before staining with propidiu iodide (10 μ g/mL), cells are incubated for 1 hour at 37 °C in 0.5 mg/mL RNase I to rid samples of residual contamination. Samples are then analyzed by using the EPICS XL apparatus. For the assessment of apopt media and cells are harvested and pelleted before staining with annexin-FITC and propidium iodide. San are subsequently analyzed by using the EPICS XL apparatus [1].	s, Jm I RNA osis, nples
描述	PLX-4720 is a potent and selective inhibitor of B-Raf (V600E) (IC50: 13 nM), equally potent to c-Raf-1(Y340D and Y341D mutations).	
储存	Powder: -20°C for 3 years In solvent: -80°C for 2 years	