

Catalog Number: CM06892

产品信息

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CM06892

CAS号:
686770-61-6

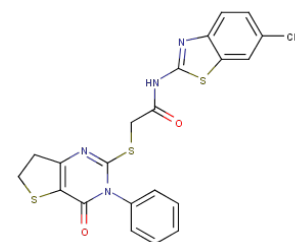
分子式:
C₂₂H₁₈N₄O₂S₃

主要靶点:
Casein Kinase|Wnt/beta-catenin|Porcupine

主要通路:
代谢|干细胞|干细胞|干细胞|细胞骨架

分子量:
466.6

溶解度:
DMSO:4.67 mg/mL (10.01 mM)



靶点活性

Wnt:27 nM

体外活性

方法:人胃癌细胞 MKN28 用 IWP-2 (5-50 μM) 处理 1-5 天, 通过 CellTiter Assay 检测细胞增殖。**结果:**在 MKN28 细胞系中治疗四天后, 10-50 μM IWP-2 显著抑制了 MKN28 细胞的增殖。[1] **方法:**L-Wnt3A 细胞用 IWP-2 (5 μM) 处理 24 h, 通过 Western Blot 检测靶点蛋白表达水平。**结果:**IWP-2 阻断了所有检测到的 Wnt 依赖性生化变化, Lrp6 受体和 Dvl2 的磷酸化, 以及 β-catenin 的积累。[2]

体内活性

方法:为研究对脱发的作用, 用 AA 抗氧化剂 (100 mg/mL, 局部用于皮肤)、PBMT 和 IWP-2 (20 mg/kg, 静脉注射, 每两天一次) 治疗 C57/BL6 小鼠。**结果:**在休止期剃须刺激后, PBMT 促进了头发再生。重要的是, 使用 AA 和 IWP-2 消除了 PBMT 在体内诱导的 HF 生长速率的差异。[3]

细胞实验

IWP-2 is prepared in DMSO and stored, and then diluted with appropriate medium before use[2]. The human RCC cell lines 786O and Caki-2 (5×10³) are seeded into 96-well plates. Cell viability is estimated by MST assay after Caki-2 acells are incubated with ncreasing concentrations of LEF together with 20 μM IWP-2 for 48 h. After treatment, 10 μL MTS is added into each well for 2 h incubation. The absorbance is measured using a model ELX800 Micro Plate Reader at 490 nm. For colony formation assay, Caki-2 cells are trypsinized to single cell suspensions and seeded into fresh 6-well plates at 1000 cells/well. Then cells are incubated with LEF at depicted concentrations for 7 days. Colonies are fixed with absolute methanol for 15 min and then stained with 0.1% crystal violet for 20 min. After washing with PBS three times, the colonies with a diameter over 2 mm are visualized by a digital camera[2].

储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year | Shipping with blue ice.