

Catalog Number: CM06892

产品信息

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CM06892

CAS号:
686770-61-6

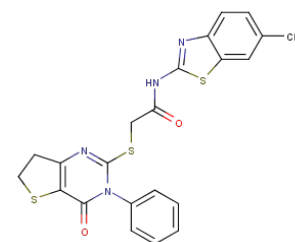
分子式:
C₂₂H₁₈N₄O₂S₃

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

主要通路:
细胞骨架|代谢|干细胞

分子量:
466.6

溶解度:
DMSO:2mg/ml (4.29mM)



靶点活性

Wnt:27 nM

体内活性

To evaluate the efficacy of IWP-2 in vivo, 200 μ L each of IWP-2-liposome or free liposome i separately injected into C57BL/6 mice intraperitoneally about 2 h before injection of a similar volume of either blue-dye-filled latex beads or E. coli DH5 α . IWP-2 causes significant reduction in the uptake of blue beads as well as E. coli as assessed by CFUs in peritoneal lavage cells within 2 h. In addition, the levels of TNF- α and IL-6 in the lavage fluid of the corresponding mice are reduced by 2-4-fold compared with control values. Interestingly, IWP-2 even induces a considerable increase in secretion of the anti-inflammatory cytokine IL-10[3]. Pretreatment with IWP-2 significantly (P<0.05) abolished SP-induced increase of Wnt3a, p-GSK3 β , and β -catenin expressions[4].

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 \times 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 μ M IWP-2 for 48 h.After treatment, 10 μ L 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].

描述

IWP-2, an inhibitor of Wnt processing and secretion (IC₅₀=27 nM) in a cell-free assay, selectively blocks Porcn-mediated Wnt palmitoylation.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years