For Research Use Only

SKL2001

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Catalog Number: CM06912

产品信息

Catalog Number:
CM06912

CAS号:
909089-13-0

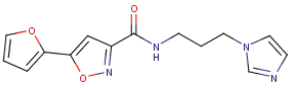
分子式:
$C_{14}H_{14}N_4O_3$

主要靶点:
Wnt/beta-catenin

主要通路:
干细胞|细胞骨架

分子量:
286.29

溶解度:
DMSO:53 mg/mL (185.1 mM),Ethanol:53 mg/mL (185.1 mM),H2O:<1 mg/mL



体外活性

SKL2001 upregulated β-catenin responsive transcription by increasing the intracellular β-catenin protein level and inhibited the phosphorylation of β-catenin at residues Ser33/37/Thr41 and Ser45, which would mark it for proteasomal degradation, without affecting CK1 and GSK-3β enzyme activities. SKL2001 disrupted the Axin/β-catenin interaction, which is a critical step for CK1- and GSK-3β-mediated phosphorylation of β-catenin at Ser33/37/Thr41 and Ser45. The treatment of mesenchymal stem cells with SKL2001 promoted osteoblastogenesis and suppressed adipocyte differentiation, both of which were accompanied by the activation of Wnt/β-catenin pathway. SKL2001 did not affect either NF-κB or p53 reporter activity and inhibits β-catenin phosphorylation without affecting GSK-3β activity[1].

细胞实验

The HEK293 reporter and control cell lines were established. The HEK293 reporter cells were inoculated into 384-well plates at 10 000 cells per well and grown for 24 h. Next, each compound in the chemical library (~270 000) was added to at a final concentration of 20 μM. After 15 h, the plates were assayed for firefly luciferase activity.(Only for Reference)

描述

SKL2001, an agonist of the Wnt/β-catenin pathway, can disrupt the Axin/β-catenin interaction.

储存

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