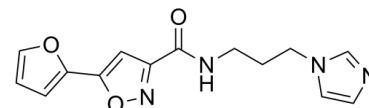


Data Sheet

Product Name:	SKL2001
Cat. No.:	CS-0020797
CAS No.:	909089-13-0
Molecular Formula:	C ₁₄ H ₁₄ N ₄ O ₃
Molecular Weight:	286.29
Target:	Wnt; β -catenin
Pathway:	Stem Cell/Wnt
Solubility:	DMSO : \geq 96.66 mg/mL (337.63 mM)



BIOLOGICAL ACTIVITY:

SKL2001 is an agonist of the **Wnt/ β -catenin** pathway, with anti-cancer activity. SKL2001 stabilizes intracellular β -catenin via disruption of the Axin/ β -catenin interaction^[1]. IC₅₀ & Target: Wnt/ β -catenin^[1] **In Vitro:** SKL2001 is an agonist of the Wnt/ β -catenin pathway, and also upregulates the expression of Axin2, a downstream target of the Wnt/ β -catenin pathway, but shows no effect on NF- κ B, p53 reporter activity and GSK-3 β activity. SKL2001 causes osteoblast differentiation (20 and 40 μ M) and suppresses preadipocyte differentiation (5, 10, and 30 μ M) via the activation of the Wnt/ β -catenin pathway. SKL2001 (5, 10, and 30 μ M) stabilizes intracellular β -catenin in 3T3-L1 cells^[1]. SKL2001 (40 μ M) significantly inhibits the proliferation of HCT116 spheroids independently of cytotoxicity and the inhibition is reversible; SKL2001 causes cell cycle arrest in HCT116 spheroids. SKL2001 (40 μ M) enhances round-shape spheroid formation and E-cadherin expression^[2].

PROTOCOL (Extracted from published papers and Only for reference)

Cell Assay: SKL2001 is dissolved in DMSO^[1]. ^[1]**ST2 cells** are cultured on glass chamber slides and then treated with **DMSO** or **SKL2001** for **15 h**. After treatment, the cells are washed with PBS, fixed with 4% formaldehyde, permeabilized in 0.3% Triton X-100, and blocked in 4% bovine serum albumin for 1 h. The cells are stained with anti- β -catenin antibody and then analyzed by confocal microscopy using a microscope^[1].

References:

- [1]. Gwak J, et al. Small molecule-based disruption of the Axin/ β -catenin protein complex regulates mesenchymal stem cell differentiation. *ell Res.* 2012 Jan;22(1):237-47.
- [2]. Ohashi W, et al. SKL2001 suppresses colon cancer spheroid growth through regulation of the E-cadherin/ β -Catenin complex. *Biochem Biophys Res Commun.* 2017 Nov 25;493(3):1342-1348.

CAIndexNames:

3-Isoxazolecarboxamide, 5-(2-furanyl)-N-[3-(1H-imidazol-1-yl)propyl]-

SMILES:

O=C(C1=NOC(C2=CC=CO2)=C1)NCCCN3C=CN=C3

Caution: Product has not been fully validated for medical applications. For research use only.

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