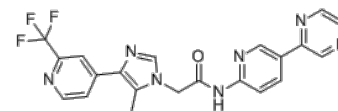


Product Name : RXC004
Cat. No. : PC-20176
CAS No. : 1900754-56-4
Molecular Formula : C₂₁H₁₆F₃N₇O
Molecular Weight : 439.40
Target : Porcupine
Solubility : 10 mM in DMSO



Biological Activity

RXC004 (RXC-004, Zamaporvint) is a potent, selective **Porcupine** (PRCN) inhibitor, inhibits functional **Wnt** production from mouse L-Wnt3a cells with IC₅₀ of 64 pM in Luciferase reporters assays.

RXC004 had no effect on downstream Wnt signaling.

RXC004 inhibited palmitoylation of Wnt, RXC004 also inhibited Wnt5a secretion from L-Wnt5a cells and reduced levels of β-catenin in L-Wnt3a cells.

Porcupine inhibition by RXC004 downregulated mRNA expression of Wnt pathway targets Axin2, RNF43, c-Myc, CD44, and MMP7 in cell lines with RNF43 LoF mutations and RSPO3 fusions.

RXC004 inhibited proliferation of cell lines with RNF43 mutations and RSPO3 fusions in a concentration-dependent manner but had no effect on cell lines with mutations in downstream Wnt signaling.

RXC004 reduced the proportion of cells in S-phase, and strongly inhibited expression of the mitosis marker phospho-histone-H3 in cells with upstream aberrations in Wnt pathway components.

RXC004 treatment (5 mg/kg once daily) inhibited tumor growth in SNU-1411/NOD-SCID xenografts, with inhibition of c-Myc gene expression in tumor.

References

Phillips C, et al. *Cancer Res Commun*. 2022 Sep 2;2(9):914-928.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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