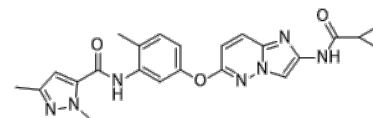


Product Name : TAK-593
Cat. No. : PC-25522
CAS No. : 1005780-62-0
Molecular Formula : C₂₃H₂₃N₇O₃
Molecular Weight : 445.48
Target : VEGFR
Solubility : 10 mM in DMSO



CAS: 1005780-62-0

Biological Activity

TAK-593 is a potent, selective and ATP-competitive inhibitor of tyrosine kinases VEGFR and PDGFR with IC₅₀s of 3.2, 0.95, 1.1, 4.3 and 13 nM for VEGFR1, VEGFR2, VEGFR3, PDGFR α and PDGFR β , respectively.

TAK-593 strongly suppresses proliferation of VEGF-stimulated human umbilical vein endothelial cells with an IC₅₀ of 0.30 nM.

TAK-593 potently inhibits VEGF- and PDGF-stimulated cellular phosphorylation and proliferation of human umbilical vein endothelial cells and human coronary artery smooth muscle cells.

TAK-593 exhibits strong anti-tumor effects against various human cancer xenografts.

TAK-593 shows anti-proliferative and pro-apoptotic effects on tumors along with a decrease of vessel density and inhibition of pericyte recruitment to microvessels in vivo.

References

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Awazu Y, et al. Cancer Sci. 2013 Apr;104(4):486-94.

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

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