Web: www.taiclone.com
Tel: +886-2-2735-9682
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TAK-593

Catalog No: tcsc2403

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1005780-62-0

Formula:
$C_{23}H_{23}N_7O_3$

Pathway:
Protein Tyrosine Kinase/RTK;Protein Tyrosine Kinase/RTK

Target:
VEGFR;PDGFR

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 48.5 mg/mL (108.87 mM)

Observed Molecular Weight:
445.47

Product Description

TAK-593 is a potent **VEGFR** and **PDGFR** family inhibitor with **IC_{50}**s of 3.2, 0.95, 1.1, 4.3 and 13 nM for VEGFR1, VEGFR2, VEGFR3,

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PDFGRα and PDFGRβ, respectively.

IC50 & Target: IC50: 3.2 nM (VEGFR1), 0.95 nM (VEGFR2), 1.1 nM (VEGFR3), 4.3 nM (PDFGRα), 13 nM (PDFGRβ)[1]

In Vitro: TAK-593 inhibits growth of HUVEC with an IC_{50} of 0.30 nM. It shows potent inhibitory activity against VEGFR (VEGFR1-3: IC_{50}=3.2, 0.95, 1.1 nM) and PDGFR (PDGFRα, β: IC_{50}=4.3, 13 nM) families. Against other kinases, the IC_{50} values of TAK-593 are above 100 nM, except for Fms (IC_{50}=10 nM) and Ret (IC_{50}=18 nM) kinases[1]. 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 also potently inhibits VEGF-induced tube formation of endothelial cells co-cultured with fibroblasts[2].

In Vivo: TAK-593 inhibits growth of HUVEC with an IC_{50} of 0.30 nM. It shows potent inhibitory activity against VEGFR (VEGFR1-3: IC_{50}=3.2, 0.95, 1.1 nM) and PDGFR (PDGFRα, β: IC_{50}=4.3, 13 nM) families. Against other kinases, the IC_{50} values of TAK-593 are above 100 nM, except for Fms (IC_{50}=10 nM) and Ret (IC_{50}=18 nM) kinases[1]. 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 also potently inhibits VEGF-induced tube formation of endothelial cells co-cultured with fibroblasts[2].