Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

NVP-ACC789

Catalog No: tcsc0015997

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Specifications

CAS No:
300842-64-2

Formula:
$C_{21}H_{17}BrN_4$

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

Target:
VEGFR;PDGFR

Purity / Grade:
>98%

Solubility:
DMSO : 60 mg/mL (148.04 mM; Need ultrasonic and warming)

Alternative Names:
ACC-789;ZK202650

Observed Molecular Weight:
405.29

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Product Description

NVP-ACC789 is an inhibitor of human **VEGFR-1**, **VEGFR-2** (mouse **VEGFR-2**), **VEGFR-3** and **PDGFR-β** with **IC_{50}**s of 0.38, 0.02 (0.23), 0.18, 1.4 μM, respectively.

IC50 & Target: IC50: 0.38 μM (human VEGFR-1), 0.02 μM (human VEGFR-2), 0.23 μM (mouse VEGFR-2), 0.18 μM (human VEGFR-3), 1.4 μM (human PDGFR-β)[1]

In Vitro: The enzymatic kinase assays demonstrate that NVP-ACC789 is an inhibitor of human VEGFR-1, VEGFR-2 (mouse VEGFR-2), VEGFR-3 and PDGFR-β with IC_{50}s of 0.38, 0.02 (0.23), 0.18, 1.4 μM, respectively. In VEGF-treated cultures, addition of the VEGFR-2 inhibitor NVP-ACC789 reduces BME cell number to baseline levels from 1 μM. Likewise, bFGF-induced BME cell proliferation is reduced markedly by NVP-ACC789 from 1 to 10 μM, without however reaching basal levels. NVP-ACC789 is found to be a potent inhibitor of VEGF-induced HUVE cell proliferation with an IC_{50} of 1.6 nM. NVP-ACC789 also completely inhibits VEGF-induced BME and BAE cell invasion and VEGF-C-induced BAE cell invasion. The inhibition is dose-dependent in both cell types with a maximal effect from 1 μM[1].

In Vivo: NVP-ACC789 which is given in daily oral doses for 6 days blocks VEGF-induced angiogenesis in a dose-dependent manner. NVP-ACC789 also inhibits the response to bFGF to some extent, but the dose-response curve is not linear for NVP-ACC789[1].