

# 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

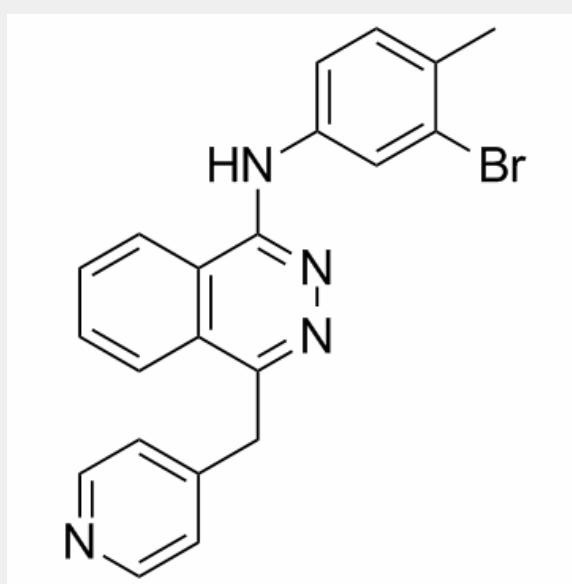
## Product Description

NVP-ACC789 is an inhibitor of human **VEGFR-1**, **VEGFR-2** (mouse **VEGFR-2**), **VEGFR-3** and **PDGFR-β** with **IC<sub>50</sub>**s of 0.38, 0.02 (0.23), 0.18, 1.4 μM, respectively.

IC<sub>50</sub> & Target: IC<sub>50</sub>: 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)<sup>[1]</sup>

**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<sub>50</sub>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<sub>50</sub> 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<sup>[1]</sup>.

**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<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!