

Catalog # 10-2183

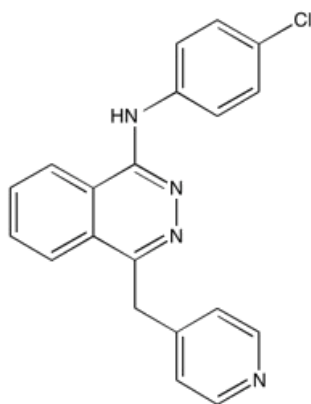
Vatalanib 2HCl

CAS# 212141-51-0

N-(4-Chlorophenyl)-4-(4-pyridinylmethyl)-1-phthalazinamine dihydrochloride

CGP-79787; PTK-787; ZK222584

Lot # X101555



Potent, selective inhibitor of the VEGFR tyrosine kinases VEGFR-1 (Flt-1, $IC_{50} = 77$ nM) and VEGFR-2 (FLK-1/KDR, $IC_{50} = 37$ nM)¹. Weaker inhibitor of other tyrosine kinases including PDGFR- β ($IC_{50} = 580$ nM), c-KIT ($IC_{50} = 730$ nM), FLT-4 ($IC_{50} = 660$ nM) and c-FMS ($IC_{50} = 1.4$ μ M). Inactive against the EGFR, c-SRC, v-ABL, and protein kinase Ca ($IC_{50} > 10$ μ M). Inhibits the growth of multiple myeloma cells in the bone marrow microenvironment².

- 1) Wood *et al.* (2000), *PTK787/ZK 222584, a novel and potent inhibitor of vascular endothelial growth factor tyrosine kinases, impairs vascular endothelial growth factor-induced responses and tumor growth after oral administration*; *Cancer Res.*, **60** 2178
- 2) Lin *et al.* (2002), *The vascular endothelial growth factor receptor tyrosine kinase inhibitor PTK787/ZK222584 inhibits growth and migration of multiple myeloma cells in bone marrow microenvironment*; *Cancer Res.*, **62** 5019

PHYSICAL DATA

| | |
|------------------------|---|
| Molecular Weight: | 419.73 |
| Molecular Formula: | C ₂₀ H ₁₅ ClN ₄ • 2HCl |
| Purity: | 98% by TLC |
| | NMR: (Conforms) |
| Solubility: | DMSO (up to 20 mg/ml with warming) , or Water (up to 100 mg/ml) |
| Physical Description: | White or off-white solid |
| Storage and Stability: | Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 3 months. |

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.