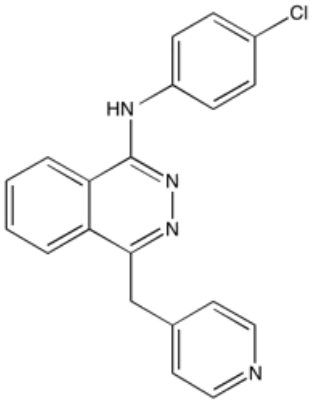
Catalog # 10-2183
Vatalanib 2HCl

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 µM). Inactive against the EGFR, c-SRC, v-ABL, and protein kinase Cα (IC_{50} > 10 µM). Inhibits the growth of multiple myeloma cells in the bone marrow microenvironment[2].

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:	$C_{20}H_{15}ClN_4 \cdot 2HCl$
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.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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