TOCRIS
a bio-techne brand

Print Date: Jan 16th 2016

Certificate of Analysis

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Product Name: **Vatalanib succinate** **Catalog No.: 5680** **Batch No.: 1**

CAS Number: 212142-18-2

IUPAC Name: *N*-(4-Chlorophenyl)-4-(4-pyridinylmethyl)-1-phthalazinamine succinate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{20}H_{15}ClN_4.C_4H_6O_4$

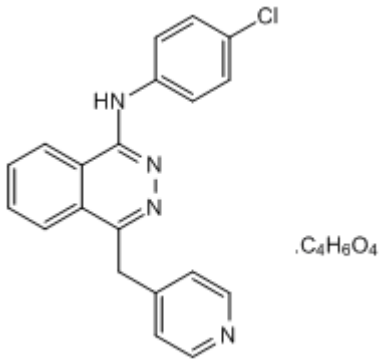
Batch Molecular Weight: 464.9

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62	4.55	12.05
Found	62.39	4.51	12.01

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Description:

Potent VEGFR inhibitor (IC_{50} values are 37 and 77 nM for VEGFR-2 and -1, respectively). Inhibits proliferation, migration and survival of HUVECs in vitro and inhibits growth, vascularization and metastasis of tumors expressing VEGFR in mouse models. Also inhibits PDGFR-β, c-Kit and c-Fms. Potent aromatase inhibitor (IC_{50} = 50 nM). Orally available.

Physical and Chemical Properties:

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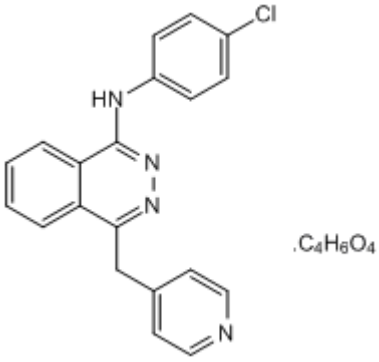
Batch Molecular Weight: 464.9

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Wood *et al* (2000) PTK787/ZK 222584, a novel and potent inhibitor of vascular endothelial growth factor receptor tyrosine kinases, impairs vascular endothelial growth factor-induced responses and tumor growth after oral administration. Cancer Res. ***60*** 2178. PMID: 10786682 .

Bold *et al* (2000) New anilinophthalazines as potent and orally well absorbed inhibitors of the VEGF receptor tyrosine kinases useful as antagonists of tumor-driven angiogenesis. J.Med.Chem. ***43*** 2310. PMID: 10956229.

Banerjee *et al* (2009) The vascular endothelial growth factor receptor inhibitor PTK787/ZK222584 inhibits aromatase. Cancer Res. ***69*** 4716. PMID: 19435899.