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- Trockeneiszuschlag
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PRODUCT INFORMATION



Vatalanib (hydrochloride)

Item No. 14868

CAS Registry No.: 212141-51-0

Formal Name: N-(4-chlorophenyl)-4-(4-pyridinylmethyl)-1-phthalazinamine, dihydrochloride

Synonyms: CGP 79787, PTK787, PTK/ZK

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

FW: 419.7

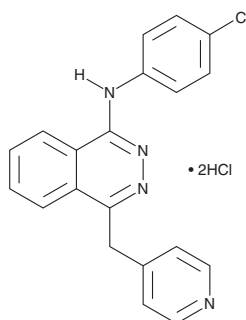
Purity: $\geq 98\%$

UV/Vis.: λ_{max} : 218, 320 nm

Supplied as: A crystalline solid

Storage: $-20^{\circ}C$

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Vatalanib (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the vatalanib (hydrochloride) in the solvent of choice. Vatalanib (hydrochloride) is soluble in organic solvents such as ethanol and DMSO. The solubility of vatalanib (hydrochloride) in these solvents is approximately 0.3 and 25 mg/ml, respectively.

Vatalanib (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, Vatalanib (hydrochloride) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Vatalanib (hydrochloride) has a solubility of approximately 0.09 mg/ml in a 1:10 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Vatalanib is an antagonist of the VEGF receptors, inhibiting the receptor tyrosine kinase activities of VEGFR1 (FLT1), VEGFR2 (KDR), and VEGFR3 (FLT4) with IC_{50} values of 77, 37, and 190 nM, respectively.^{1,2} It less potently inhibits PDGF and c-Kit (IC_{50} = 600 and 700 nM) and has no effect on a large panel of additional kinases.¹⁻³ Vatalanib completely blocks retinal neovascularization in oxygen-induced ischemic retinopathy in mice, suggesting its use in diabetic retinopathy and other diseases featuring aberrant vascular development.^{4,5}

References

1. Bold, G., Altmann, K.-H., Frei, J., et al. *J. Med. Chem.* **43**(16), 3200 (2000).
2. Fabian, M.A., Biggs, W.H.I., Treiber, D.K., et al. *Nat. Biotechnol.* **23**(3), 329-336 (2005).
3. Furet, P., Bold, G., Hofmann, F., et al. *Bioorg. Med. Chem. Lett.* **13**(18), 2967-2971 (2003).
4. Ozaki, H., Seo, M.-S., Ozaki, K., et al. *Am. J. Pathol.* **156**(2), 697-707 (2000).
5. Giatromanolaki, A., Koukourakis, M., Sivridis, E., et al. *Br. J. Cancer* **107**(7), 1044-1050 (2012).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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