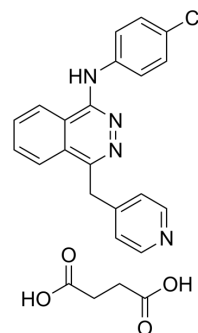


## Vatalanib succinate

Cat. No.:	HY-110272
CAS No.:	212142-18-2
Molecular Formula:	C <sub>24</sub> H <sub>21</sub> ClN <sub>4</sub> O <sub>4</sub>
Molecular Weight:	464.9
Target:	VEGFR
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Vatalanib (PTK787) succinate is a potent and orally active VEGFR inhibitor with IC <sub>50</sub> s of 37 nM, 77 nM, 270 nM, 660 nM, 730 nM, 1400 nM, and 580 nM for KDR, Flt-1, Flk, Flt-4, c-Kit, c-Fms, and PDGFR-β, respectively <sup>[1]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	KDR 37 nM (IC <sub>50</sub> )	Flt-1 77 nM (IC <sub>50</sub> )	Flt-4 730 nM (IC <sub>50</sub> )
<b>In Vitro</b>	Vatalanib (PTK787) inhibits VEGF-induced autophosphorylation of kinase insert domain-containing receptor (KDR), endothelial cell proliferation, migration, and survival in the nanomolar range in cell-based assays. In concentrations up to 1 μM, Vatalanib (PTK787) does not have any cytotoxic or antiproliferative effect on cells that do not express VEGF receptors <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
<b>In Vivo</b>	After oral dosing (50 mg/kg) to mice, plasma concentrations of Vatalanib (PTK787) remain above 1 μM for more than 8 h. Vatalanib (PTK787) induces dose-dependent inhibition of VEGF and PDGF-induced angiogenesis in a growth factor implant model, as well as a tumor cell-driven angiogenesis model after once-daily oral dosing (25-100 mg/kg) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

### CUSTOMER VALIDATION

- Bioact Mater. 2 January 2022.
- Sci Transl Med. 2018 Jul 18;10(450):eaaq1093.
- J Pharm Anal. 2023 Sep 11.
- Br J Pharmacol. 2019 Sep;176(17):3143-3160.
- Oncol Rep. 2016 Mar;35(3):1297-308.

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### REFERENCES

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[1]. J M Wood, et al. 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. 2000 Apr 15;60(8):2178-89.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA