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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Apatinib

Item No. 21268

CAS Registry No.: 811803-05-1

Formal Name: N-[4-(1-cyanocyclopentyl)phenyl]-2-[(4-pyridinylmethyl)amino]-3-pyridinecarboxamide

Synonym: YN968D1

MF: $C_{24}H_{23}N_5O$

FW: 397.5

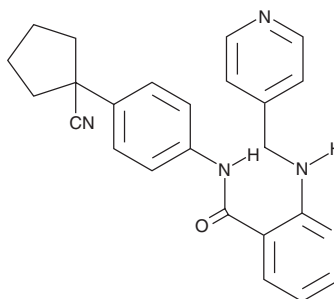
Purity: $\geq 98\%$

UV/Vis.: λ_{max} : 236, 261, 345 nm

Supplied as: A crystalline solid

Storage: -20°C

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



Laboratory Procedures

Apatinib is supplied as a crystalline solid. A stock solution may be made by dissolving the apatinib in the solvent of choice. Apatinib is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of apatinib in ethanol is approximately 1 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Apatinib is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, apatinib should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Apatinib has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Apatinib is a tyrosine kinase inhibitor that potently suppresses the kinase activity of vascular endothelial growth factor 2 (VEGFR2; $IC_{50} = 1 \text{ nM}$).¹ It is less effective against c-kit ($IC_{50} = 429 \text{ nM}$), Ret ($IC_{50} = 13 \text{ nM}$), and c-src ($IC_{50} = 53 \text{ nM}$) and does not inhibit EGFR, Her-2, or FGFR1 ($IC_{50}s > 10 \text{ }\mu\text{M}$).¹ Apatinib has been shown to inhibit the proliferation, migration, and tube formation of human umbilical vein endothelial cells stimulated by fetal bovine serum and, either alone or in combination with chemotherapeutic agents, prevent the growth of several established human tumor xenograft models.¹

Reference

1. Tian, S., Quan, H., Xie, C., *et al.* YN968D1 is a novel and selective inhibitor of vascular endothelial growth factor receptor-2 tyrosine kinase with potent activity *in vitro* and *in vivo*. *Cancer Sci.* **102(7)**, 1374-1380 (2011).

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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