

Certificate of Analysis

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Product Name: Axitinib

Catalog No.: 4350

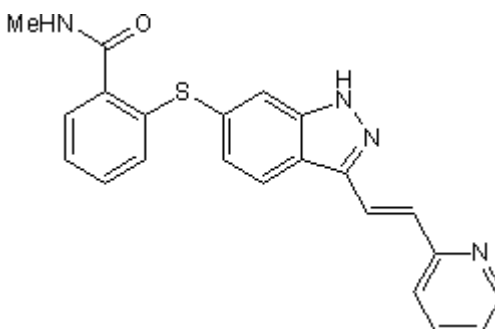
Batch No.: 1

CAS Number: 319460-85-0

IUPAC Name: *N*-Methyl-[[3[(1*E*)-2-(2-pyridinyl)ethenyl]-1*H*-indazol-6-yl]thio]-benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₈N₄OS
Batch Molecular Weight: 386.47
Physical Appearance: White solid
Solubility: DMSO to 25 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.37	4.69	14.5
Found	68.23	4.75	14.54

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

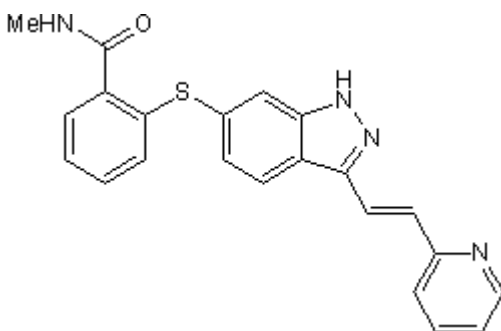
Potent inhibitor of VEGFR-1, -2 and -3 (IC₅₀ values are 0.2, 0.1 to 0.3, and 1.2 nM for VEGFR-2, VEGFR-3 and VEGFR-1 respectively). Inhibits angiogenesis and vascular permeability. Displays little activity at 'off-target' protein kinases and exhibits no significant activity in a broad protein kinase screen. Orally available.

Physical and Chemical Properties:

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

Soluble to 25 mM in DMSO

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:

Hu-Lowe et al (2008) Nonclinical antiangiogenesis and antitumor activities of axitinib (AG-013736), an oral, potent, and selective inhibitor of vascular endothelial growth factor receptor tyrosine kinases 1, 2 and 3. *Clin.Cancer Res.* **14** 7272. PMID: 19010843.

Ma and Waxman (2008) Modulation of the antitumor activity of metronomic cyclophosphamide by the angiogenesis inhibitor axitinib. *Mol.Cancer Ther.* **7** 79. PMID: 18202011.

Congratulations on your purchase of Axitinib, sold under license from Pfizer, Inc. If your research with Axitinib results in a new discovery (e.g., new uses, new combinations, etc.) Pfizer is interested in discussing these discoveries with you. Also note that Pfizer has a Compound Transfer Program that provides a free sample of any Pfizer product at www.pfizer.com/research/rd_works/compound_transfer_program.jsp

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