



Product Specification Sheet

Product Name: Axitinib (AG 013736)

Catalog Number: C2413

Technical information:

Chemical Formula: C₂₂H₁₈N₄O₅

CAS #: 319460-85-0

Molecular Weight: 386.47

Purity: > 98%

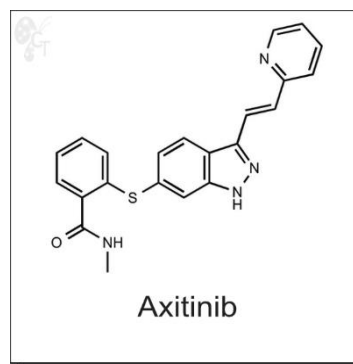
Appearance: White solid

Solubility: Soluble in DMSO up to 100 mM

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

Storage: For longer shelf life, store solid powder or DMSO solution at -20°C desiccated.

Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.



- Handling:**
- To make 10 mM stock solution, add 0.259mL of DMSO for each mg of Axitinib (AG 013736).
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: Axitinib (AG 013736) is a potent multi-target tyrosine kinase inhibitor (TKI), which inhibits VEGFR1, VEGFR2, VEGFR3, PDGFR β , PDGFR α and c-Kit with IC₅₀ values of 1.2 nM, 0.2 nM, 0.1 nM-0.3 nM, 1.6 nM, 5.0 nM, and 1.7 nM, respectively. [1] In human xenograft tumor models (nude mice), Axitinib (AG 013736) shows consistent antitumor efficacy across various tumor types, which is associated with reduction in vascular angiogenesis and tumor proliferation and increase in tumor apoptosis. [1]

Axitinib (AG 013736) resulted in significantly longer progression-free survival compared with sorafenib and has been approved as a second-line therapy of advanced renal cell carcinoma. [2]

- Reference:**
1. Hu-Lowe DD, et al. 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, 3. Clin Cancer Res. 2008; 14(22):7272-83 Pubmed ID: 19010843
 2. <http://www.fda.gov/Drugs/InformationOnDrugs/ApprovedDrugs/ucm289439.htm> Pubmed ID: NCT02684006
 3. <https://clinicaltrials.gov/show/NCT02700568> Pubmed ID: NCT02700568

To reorder: <http://www.cellagentech.com/Axitinib-AG-013736/>

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.