Product Specification Sheet

**Product Name:** PQ401
**Catalog Number:** C7740

**Technical information:**
- **Chemical Formula:** C₁₈H₁₆ClN₃O₂
- **CAS #:** 196868-63-0
- **Molecular Weight:** 341.79
- **Purity:** > 98%
- **Appearance:** white solid
- **Solubility:** Soluble in DMSO up to 50 mM
- **Chemical Name:** N-(5-Chloro-2-methoxyphenyl)-N'-(2-methylquinolin-4-yl)urea
- **Storage:** Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.
- **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 0.293 mL of DMSO for each mg of PQ401.
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

**Biological Activity:** PQ401 is a diarylurea-based antagonist of IGF-1R, inhibiting autophosphorylation in MCF-7 cells and the IGF-1R isolated kinase domain at IC50s of 12 uM and <1 uM, respectively. In IGF-1R stimulated MCF-7 cells, PQ401 was more effective at an IC50 of 6 uM. In MCF-7 cells IGF-1-mediated signaling is decreased by way of the Akt antiapoptotic pathway. Prolonged incubation with PQ401 induces a dose-dependent increase in caspase activation. (1)


To reorder: [http://www.cellagentech.com/PQ401/](http://www.cellagentech.com/PQ401/)
For Technical Support: technical@cellagentech.com

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