

Product Name: CP 673451

Catalog No.: 5993

Batch No.: 3

CAS Number: 343787-29-1

IUPAC Name: 1-[2-[5-(2-Methoxyethoxy)-1*H*-benzimidazol-1-yl]-8-quinolinyl]-4-piperidinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₇N₅O₂·1¼H₂O

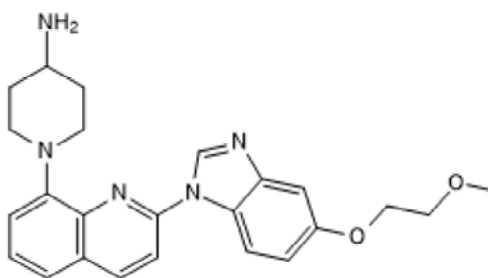
Batch Molecular Weight: 440.02

Physical Appearance: Pale yellow solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.51	6.76	15.92
Found	65.38	6.61	15.98

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Description:

CP 673451 is a potent and selective PDGFR inhibitor (IC₅₀ values are 1 and 10 nM for PDGFR-β and -α respectively). Selective for PDGFR kinase over a range of related kinases. Inhibits PDGFR-β phosphorylation in glioblastoma xenografts and PDGF-induced angiogenesis in mice.

Physical and Chemical Properties:

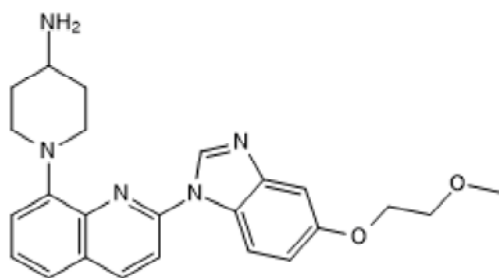
Batch Molecular Formula: C₂₄H₂₇N₅O₂·1½H₂O

Batch Molecular Weight: 440.02

Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM

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:

Roberts et al (2005) Antiangiogenic and antitumor activity of a selective PDGFR tyrosine kinase inhibitor, CP-673,451. *Cancer Res.* **65** 957. PMID: 15705896.

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