

Certificate of Analysis

Product Name: DMPQ dihydrochloride

Catalog No.: 1222

Batch No.: 1

CAS Number: 1123491-15-5

IUPAC Name: 5,7-Dimethoxy-3-(4-pyridinyl)quinoline dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{14}N_2O_2 \cdot 2HCl \cdot \frac{1}{4}H_2O$

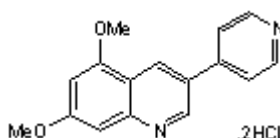
Batch Molecular Weight: 343.7038

Physical Appearance: Yellow crystalline solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.27$ (Dichloromethane:Methanol [10:1])

Melting Point: Between 174 - 176°C

HPLC: Shows >99% purity

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen		
Theoretical	55.9	4.83	8.15	0	0
Found	55.57	4.7	8.16	0	0

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

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Description:

A potent and selective inhibitor of human vascular β -type platelet derived growth factor receptor tyrosine kinase (PDGFR β) (IC_{50} = 80 nM). Displays > 100-fold selectivity over EGFR tyrosine kinase, erbB2, p56, protein kinase A and protein kinase C.

Physical and Chemical Properties:

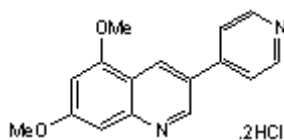
Batch Molecular Formula: C₁₆H₁₄N₂O₂.2HCl.¼H₂O

Batch Molecular Weight: 343.7038

Physical Appearance: Yellow crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 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:

Dolle et al (1994) 5,7-Dimethoxy-3-(4-pyridinyl)quinoline is a potent and selective inhibitor of human vascular β -type platelet-derived growth factor receptor tyrosine kinase J.Med.Chem. **37** 2627. PMID: 8064792.

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