

Product Name: Ki 8751

Catalog No.: 2542

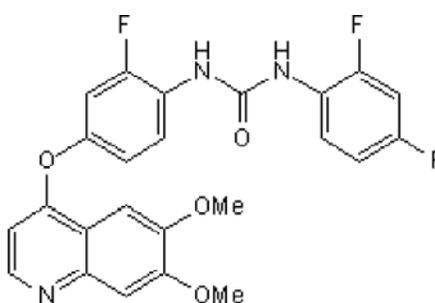
Batch No.: 2

CAS Number: 228559-41-9

IUPAC Name: *N*-(2,4-Difluorophenyl)-*N'*-[4-[(6,7-dimethoxy-4-quinolinyl)oxy]-2-fluorophenyl]urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₁₈F₃N₃O₄
Batch Molecular Weight: 469.41
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.55 (Dichloromethane:Methanol [9:1])
HPLC: Shows 98.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	61.41	3.87	8.95
Found	61.66	3.88	8.81

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

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Description:

Potent, selective inhibitor of VEGFR-2 tyrosine kinase ($IC_{50} = 0.9$ nM). Displays some inhibitory activity towards c-Kit, PDGFR α and FGFR-2 (IC_{50} values range from 40 to 170 nM) but is highly selective over other receptor tyrosine kinases ($IC_{50} > 10000$ nM for FGFR-2, EGFR and HGFR). Inhibits VEGF-stimulated proliferation of human umbilical vein endothelial cells (HUVEC) and inhibits tumor growth in vivo; antiangiogenic.

Physical and Chemical Properties:

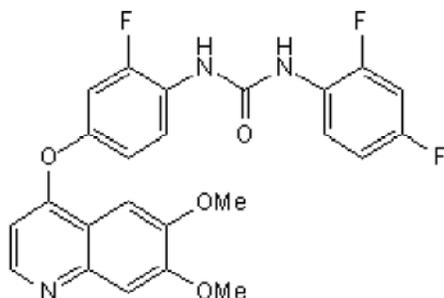
Batch Molecular Formula: $C_{24}H_{18}F_3N_3O_4$

Batch Molecular Weight: 469.41

Physical Appearance: Off White solid

Minimum Purity: $\geq 97\%$

Batch Molecular Structure:



References:

Kubo *et al* (2005) Novel potent orally active selective VEGFR-2 tyrosine kinase inhibitors: synthesis, structure-activity relationships, and antitumour activities of *N*-phenyl-*N'*-[4-(4-quinolyloxy)phenyl]ureas. *J. Med. Chem.* **48** 1359. PMID: 15743179.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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.

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