

Product Name: BMS 605541

Catalog No.: 6069

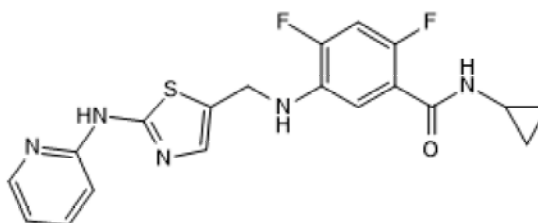
Batch No.: 1

CAS Number: 639858-32-5

IUPAC Name: *N*-Cyclopropyl-2,4-difluoro-5-[[[2-(2-pyridinylamino)-5-thiazolyl]methyl]amino]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₇F₂N₅OS
Batch Molecular Weight: 401.43
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.26 (Dichloromethane:Methanol [9:1])
HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.85	4.27	17.45
Found	56.87	4.27	17.42

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

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Description:

Potent ATP-competitive VEGFR-2 inhibitor (IC_{50} = 23nM). Shows over 10-fold selectivity for VEGFR-2 over VEGFR-1. Displays antitumor properties in human lung and colon tumor xenograft models. Orally bioavailable in rodents.

Physical and Chemical Properties:

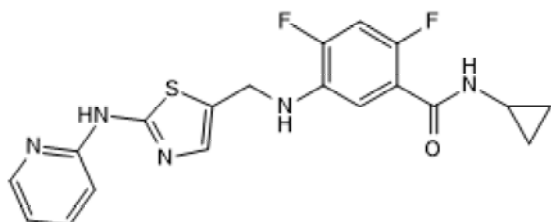
Batch Molecular Formula: C₁₉H₁₇F₂N₅OS

Batch Molecular Weight: 401.43

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°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.

References:

Borzilleri et al (2006) Discovery and evaluation of N-cyclopropyl- 2,4-difluoro-5-((2-(pyridin-2-ylamino)thiazol-5-ylmethyl)amino) benzamide (BMS-605541), a selective and orally efficacious inhibitor of vascular endothelial growth factor receptor-2. *J.Med.Chem* **49** 3766. PMID: 16789733.

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