

Product Name: AZD 1480

Catalog No.: 5617

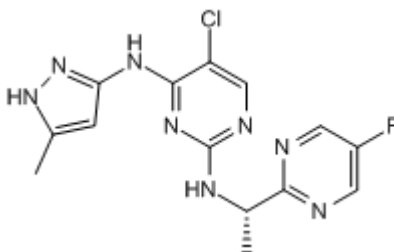
Batch No.: 1

CAS Number: 935666-88-9

IUPAC Name: 5-Chloro-*N*²-[(1*S*)-1-(5-fluoro-2-pyrimidinyl)ethyl]-*N*⁴-(5-methyl-1*H*-pyrazol-3-yl)-2,4-pyrimidine-2,4-diamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₄ClFN₈.
Batch Molecular Weight: 348.77
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
Chiral HPLC: Shows >99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.21	4.05	32.13
Found	47.95	4.05	31.98

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

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Description:

Potent and selective JAK2 inhibitor (IC₅₀ < 3 nM). Exhibits >50-fold selectivity for JAK2 over JAK3. Exhibits antitumor effects and inhibits formation of lung metastases in a mouse renal cancer model. Also inhibits STAT3 signaling, tumor angiogenesis and myeloid cell migration in vivo.

Physical and Chemical Properties:

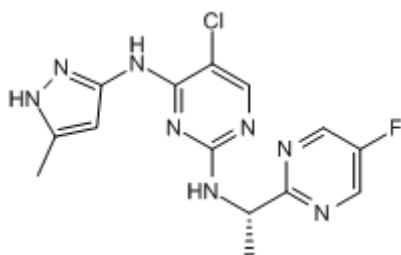
Batch Molecular Formula: C₁₄H₁₄ClFN₈.

Batch Molecular Weight: 348.77

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Ioannidis S et al (2011) Discovery of 5-chloro-*N*²-[(1*S*)-1-(5-fluoropyrimidin-2-yl)ethyl]-*N*⁴-(5-methyl-1*H*-pyrazol-3-yl)pyrimidine-2,4-diamine (AZD1480) as a novel inhibitor of the Jak/Stat pathway. *J. Med. Chem.* **54** 262. PMID: 21138246.

Xin et al (2011) Antiangiogenic and antimetastatic activity of JAK inhibitor AZD1480. *Cancer Res.* **71** 6601. PMID: 21920898.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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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