

Product Name: AZD 4547

Catalog No.: 7823

Batch No.: 1

CAS Number: 1035270-39-3

IUPAC Name: *rel-N*-[5-[2-(3,5-Dimethoxyphenyl)ethyl]-1*H*-pyrazol-3-yl]-4-[(3*R*,5*S*)-3,5-dimethyl-1-piperaziny]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₃N₅O₃·½H₂O

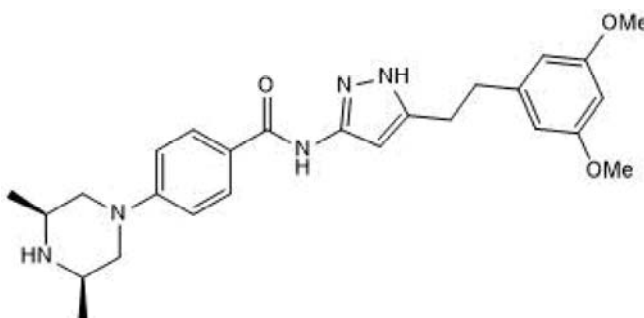
Batch Molecular Weight: 472.57

Physical Appearance: Off-white solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.08	7.25	14.82
Found	65.38	7.16	14.54

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

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Description:

AZD 4547 is a potent and selective FGFR1, FGFR3 and FGFR2 tyrosine kinase inhibitor (IC₅₀ values are 0.2, 1.8, and 2.5 nM, respectively). It shows selectivity for FGFR across a range of unrelated tyrosine and serine/threonine kinases, including IGF1R (>2,900-fold), CDK2 (>50,000-fold), and p38 (>50,000-fold). In vitro, it has antiproliferative effects on tumor cell lines with deregulated FGFR expression. In vivo, AZD 4547 exhibits dose-dependent inhibition of tumor growth in an FGFR-driven human tumor xenograft mice model. It suppresses osteoclastogenesis and tumor-induced osteolysis in an orthotopic breast cancer bone metastasis... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

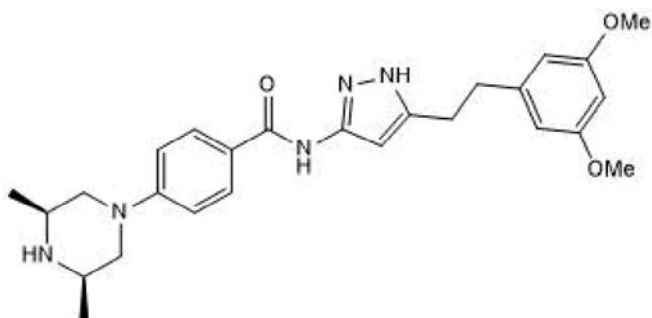
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Batch Molecular Weight: 472.57

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Kang et al (2019) A selective FGFR inhibitor AZD4547 suppresses RANKL/M-CSF/OPG-dependent osteoclastogenesis and breast cancer growth in the metastatic bone microenvironment. *Sci.Rep.* **9** 8726. PMID: 31217507.

Gavine et al (2012) AZD4547: an orally bioavailable, potent, and selective inhibitor of the fibroblast growth factor receptor tyrosine kinase family. *Cancer Res.* **72** 2045. PMID: 22369928.

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.

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