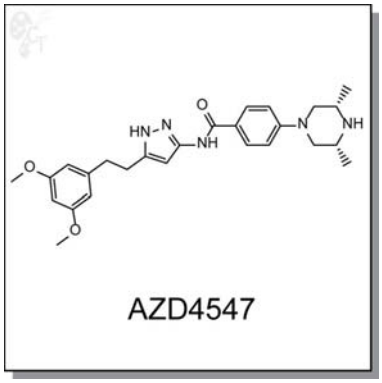
Product Specification Sheet

Product Name: AZD4547

Catalog Number: C2454



Technical information:

Chemical Formula:	$C_{26}H_{33}N_5O_3$
CAS #:	1035270-39-3
Molecular Weight:	463.57
Purity:	> 98%
Appearance:	White solid
Solubility:	Soluble in DMSO up to 100 mM
Chemical Name:	N-(5-(3,5-dimethoxyphenethyl)-1H-pyrazol-3-yl)-4-((3S,5R)-3,5-dimethylpiperazin-1-yl)benzamide
Storage:	Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.
Shelf Life:	In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

Handling:

- To make 10 mM stock solution, add 0.216mL of DMSO for each mg of AZD4547
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity:

AZD4547 is a pyrazole-based, FGFR1, FGFR2, and FGFR3 inhibitor with IC50 potency of 0.2, 2.5, and 1.8 nM, respectively. Besides modest activity against KDR (IC50, 24 nM), AZD4547 displays high selectivity towards unrelated tyrosine and serine-threonine kinases. [1] In cells, AZD4547 inhibits autophosphorylation of FGFR1, 2, and 3 at IC50 values of 12, 2, and 40 nM, respectively, along with downstream components, MAPK, FRS2, and PLCg in a dose-dependent manner. Antiproliferative effects of AZD4547 were observed predominantly in tumor cell lines with deregulated FGFR expression.

Preclinical studies indicate that AZD4547 does not induce known deleterious effects normally associated and characterized with KDR inhibition.

Reference:

1. Gavine et al., AZD4547: an orally bioavailable, potent, and selective inhibitor of the fibroblast growth factor receptor tyrosine kinase family. Cancer Res. 2012, 72, 2045-2056. Pubmed ID: 22369928

To reorder: http://www.cellagentech.com/AZD4547/

For Technical Support: technical@cellagentech.com

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