

Product Name: AZD4547 Revision Date: 01/10/2021

Product Data Sheet

AZD4547

Cat. No.: A8350

CAS No.: 1035270-39-3
Formula: C26H33N5O3

M.Wt: 463.57

Synonyms: AZD 4547;AZD-4547

Target: Tyrosine Kinase

Pathway: FGFR

Storage: Store at -20°C



≥23.2 mg/mL in DMSO; insoluble in H2O; ≥6.33 mg/mL in EtOH

In Vitro

| Preparing Stock Solutions | Solvent Concentration | 1mg | 5mg | 10mg |
|---------------------------|-----------------------|-----------|------------|------------|
| | 1 mM | 2.1572 mL | 10.7859 mL | 21.5717 mL |
| | 5 mM | 0.4314 mL | 2.1572 mL | 4.3143 mL |
| | 10 mM | 0.2157 mL | 1.0786 mL | 2.1572 mL |

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

| FGFR inhibitor | FGFR inhibitor | | |
|--------------------------|---|--|--|
| 0.2 nM (FGFR1), 2.5 nM (| 0.2 nM (FGFR1), 2.5 nM (FGFR2), 1.8 nM (FGFR3) | | |
| Cell Viability Assay | | | |
| Cell Line: | KG1a, Sum52-PE, KMS11 and MCF7 cells | | |
| Preparation method: | The solubility of this compound in DMSO is >10 mM. General tips for obtaining | | |
| | a higher concentration: Please warm the tube at 37°C for 10 minutes and/or | | |
| | shake it in the ultrasonic bath for a while. Stock solution can be stored below | | |
| | -20°C for several months. | | |
| Reacting conditions: | 1 μM; 72 hrs | | |
| | 0.2 nM (FGFR1), 2.5 nM (Cell Viability Assay Cell Line: Preparation method: | | |

| | Applications: | AZD4547 affected AKT phosphorylation in Sum52-PE and MCF7 cells, but not | | |
|---------|-------------------|---|--|--|
| | | in KG1a and KMS11 cells. AZD4547 treatment significantly induced apoptosis | | |
| | | in Sum52-PE and KMS11 cells, and dramatically increased G1 arrest but not | | |
| | | apoptosis in KG1a cells. In MCF7 cells, AZD4547 showed no effect on cell | | |
| | | cycle distribution or apoptosis. | | |
| | Animal experiment | Animal experiment | | |
| | Animal models: | SCID mice bearing KMS11 tumors | | |
| | Dosage form: | 1.5 ~ 12.5 mg/kg, p.o.; q.d. or b.i <mark>.d.</mark> | | |
| | Applications: | In mice bearing KMS11 tumors, AZD4547 (3 mg/kg, b.i.d.) significantly | | |
| | | inhibited tumor growth (53%). AZD4547 treatment at 12.5 mg/kg once daily or | | |
| In Vivo | | 6.25 mg/kg twice daily resulted in complete tumor stasis due to | | |
| | | dose-dependent modulation of phospho-FGFR3, and reduced KMS11 cell | | |
| | | proliferation. | | |
| | Other notes: | Please test the solubility of all compounds indoor, and the actual solubility may | | |
| | 310 | slightly differ with the theoretical value. This is caused by an experimental | | |
| | PE | system error and it is normal. | | |

Product Citations

1. Driehuis E, Kolders S, et al. "Oral Mucosal Organoids as a Potential Platform for Personalized Cancer Therapy." Cancer Discov. 2019 Jul;9(7):852-871.PMID:31053628

See more customer validations on www.apexbt.com.

References

[1]. Gavine PR, Mooney L, Kilgour E, Thomas AP, Al-Kadhimi K, Beck S, Rooney C, Coleman T, Baker D, Mellor MJ, Brooks AN, Klinowska T. AZD4547: an orally bioavailable, potent, and selective inhibitor of the fibroblast growth factor receptor tyrosine kinase family. Cancer Res.2012 Apr 15;72(8):2045-56.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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