**Quizartinib (AC220)**

- **Cat. No.:** A5793  
- **CAS No.:** 950769-58-1  
- **Formula:** C29H32N6O4S  
- **M.Wt:** 560.67  
- **Synonyms:**  
- **Target:** Tyrosine Kinase  
- **Pathway:** FLT3  
- **Storage:** Store at -20°C

### Solvent & Solubility

$$\geq 28.0335 \text{mg/mL in DMSO, insoluble in EtOH, insoluble in H}_2\text{O}$$

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Concentration</th>
<th>1mg</th>
<th>5mg</th>
<th>10mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>1.7836 mL</td>
<td>8.9179 mL</td>
<td>17.8358 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.3567 mL</td>
<td>1.7836 mL</td>
<td>3.5672 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.1784 mL</td>
<td>0.8918 mL</td>
<td>1.7836 mL</td>
</tr>
</tbody>
</table>

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

### Biological Activity

- **Shortsummary:** FLT3 inhibitor, potent and selective
- **IC₅₀ & Target:** 1.1 nM (Flt3ITD), 4.2 nM (Flt3wt)

#### Cell Viability Assay

- **Cell Line:** MV4-11 and RS4;11 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:** 20 μM, 72 hrs
- **Applications:** In MV4-11 and RS4;11 cells, AC220 inhibited the autophosphorylation of FLT3,
with the IC50 values of 1.1 nM and 4.2 nM, respectively.

<table>
<thead>
<tr>
<th>Animal experiment</th>
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<tbody>
<tr>
<td>Animal models: Mice bearing MV4-11 tumors</td>
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<tr>
<td>Dosage form: 10 mg/kg; p.o.</td>
</tr>
<tr>
<td>Applications: In mice bearing MV4-11 tumors, AC220 inhibited FLT3 autophosphorylation in a time-dependent manner.</td>
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<td>Other notes: Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.</td>
</tr>
</tbody>
</table>


References


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