Barasertib (AZD1152-HQPA)

Cat. No.: A4112
CAS No.: 72544-51-6
Formula: C26H30FN7O3
M.Wt.: 507.56
Synonyms: AZD1152-HQPA, AZD-1152HQPA, AZD1152HPQA, INH 34
Target: Chromatin/Epigenetics
Pathway: Aurora Kinase
Storage: Store at -20°C

Solvent & Solubility

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass 1mg</th>
<th>Mass 5mg</th>
<th>Mass 10mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>1.9702 mL</td>
<td>9.8511 mL</td>
<td>19.7021 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3940 mL</td>
<td>1.9702 mL</td>
<td>3.9404 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1970 mL</td>
<td>0.9851 mL</td>
<td>1.9702 mL</td>
</tr>
</tbody>
</table>

≥25.4 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O

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

Biological Activity

Short Summary: Aurora Kinase B inhibitor, Potent and selective
IC_{50} & Target: 0.37 nM (Aurora B)

Cell Viability Assay

<table>
<thead>
<tr>
<th>Cell Line:</th>
<th>HL-60 cells</th>
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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: 25 nM, 72 hours

Applications: The cells exhibited increased DNA contents of 4N and 8N, indicative of polyploidy, within 24–48 h of treatment. After 48–72 h, barasertib-HQPA induced apoptotic cell death, as detected by an increased sub-G1 population compared for that of untreated cells. The induction of polyploidy was obvious at 24–48 h, and thereafter, the nuclei showed morphology typical of apoptosis, such as nuclear fragmentation and condensation. These observations were in accordance with the findings of the flow cytometric analysis.

Animal experiment

Animal models: Female nude mice injected with SW620, Colo205 or HCT116 cells

Dosage form: Subcutaneous injection, 150 mg/kg/day, minipump infusion over 48 h

Applications: In SW620, HCT116 and Colo205 xenografts significant tumor growth inhibitions of 79% (P

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.

Product Citations


References


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 APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage
temperature. Short-term 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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