MK-2206 dihydrochloride

Cat. No.: A3010
CAS No.: 1392980-13-2
Formula: C25H21N5O·2HCl
M.Wt: 480.39
Synonyms: MK-2206, MK2206, MK 2206
Target: PI3K/Akt/mTOR Signaling
Pathway: Akt
Storage: Store at -20°C

Solvent & Solubility

- ≥12.01 mg/mL in DMSO

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Mass Concentration</th>
<th>Solvent</th>
<th>1mg</th>
<th>5mg</th>
<th>10mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td></td>
<td>2.0816 mL</td>
<td>10.4082 mL</td>
<td>20.8164 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td></td>
<td>0.4163 mL</td>
<td>2.0816 mL</td>
<td>4.1633 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td></td>
<td>0.2082 mL</td>
<td>1.0408 mL</td>
<td>2.0816 mL</td>
</tr>
</tbody>
</table>

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

Biological Activity

Short summary: Akt1/2/3 inhibitor
IC₅₀ & Target: 8 nM (Akt1), 12 nM (Akt2), 65 nM (Akt3)

Cell Viability Assay

- Cell Line: Endometriotic stromal 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: 100 nM, 2h
- Applications: Inhibiting AKT with MK-2206 or MEK1/2 with U0126 for 24 hours in the
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360 mg/kg/d, 15 days, oral Gavage
decreased levels of
pt
3K
2206

Please test the solubility of all compounds indoor, and the actual solubility may
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CAUTION

Other notes:
No significant interaction between MK-2206 and progesterone (P=0.628).
Trends toward decreased tumor volume were noted with MK-2206 (P=0.077)
and progesterone (P=0.087). Treatment with MK-2206 decreased levels of
Ki67. Levels of cleaved caspase-3 (CC3) were very low in E and E +P-treated
grafts, whereas MK-2206 increased CC3 levels, especially in the presence of
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 APExBIO 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.