The solubility of this compound in DMSO is > 36.1 mg/mL. 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.

Stock Solutions

Preparation

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass (1 mg)</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>1.3852 mL</td>
<td>6.9262 mL</td>
<td>13.8523 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.2770 mL</td>
<td>1.3852 mL</td>
<td>2.7705 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1385 mL</td>
<td>0.6926 mL</td>
<td>1.3852 mL</td>
</tr>
</tbody>
</table>

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

Biological Activity

Short Summary

CaM kinase II inhibitor

IC₅₀ & Target

0.9 μM (Calmodulin protein kinase II)

Cell Viability Assay

In Vitro

Preparation method:
The solubility of this compound in DMSO is > 36.1 mg/mL. 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, 2, 5 or 10 μM; 24 or 48 hrs
Applications: KN-62 inhibited the cell growth of K562 cells in a dose-dependent manner. Two days after the treatment of 10 μM KN-62, 63% K562 cells were inhibited. Flow cytometric analysis showed that KN-62 (10 μM, 24 hrs) caused an accumulation of K562 cells in S phase. Immunoblotting studies indicated that CaMKII was inhibited in these K562 cells.

In Vivo

<table>
<thead>
<tr>
<th>Applications:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

Animal experiment

<table>
<thead>
<tr>
<th>Applications:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

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. 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.

APExBIO Technology
www.apexbt.com
7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com