Erlotinib Hydrochloride

**Solvent & Solubility**

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.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Mass Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td></td>
<td>2.3261 mL</td>
<td>11.6303 mL</td>
<td>23.2607 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.4652 mL</td>
<td>2.3261 mL</td>
<td>4.6521 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.2326 mL</td>
<td>1.1630 mL</td>
<td>2.3261 mL</td>
</tr>
</tbody>
</table>

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

**Biological Activity**

**Shortsummary**

Selective EGFR inhibitor

**IC50 & Target**

2 nM (HER1/EGFR)

**Cell Viability Assay**

**Cell Line:** Calu1 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, 24 hours

**Applications:** Cells were treated with single dose of erlotinib (1 μM, 24 hours), docetaxel (50
In Vivo

Animal experiment

<table>
<thead>
<tr>
<th>Animal models</th>
<th>Female, athymic, nu/nu-nuBR nude mice injected with H460a cells</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dosage form</td>
<td>Oral administration, 100mg/kg, daily for 3 weeks</td>
</tr>
<tr>
<td>Applications</td>
<td>Erlotinib had significant dose-dependent efficacy. In the 100mg/kg group there was growth inhibition of 61%. The other groups had the following growth inhibition: 25mg/kg: 46%; 12.5mg/kg: 36%; 6.25mg/kg: 28%. There were no partial or complete regressions.</td>
</tr>
<tr>
<td>Other notes</td>
<td>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>

Product Citations


References


Caution

FOR RESEARCH PURPOSES ONLY.
NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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