ALW-II-41-27

Cat. No.: A3165
CAS No.: 1186206-79-0
Formula: C32H32F3N5O2S
M.Wt: 607.69
Synonyms: Eph receptor tyrosine kinase inhibitor
Target: Tyrosine Kinase
Pathway: EphB4
Storage: Store at -20°C

Solvent & Solubility

<table>
<thead>
<tr>
<th>Preparing</th>
<th>Mass</th>
<th>Solvent</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock Solutions</td>
<td>1 mg</td>
<td>1 mM</td>
<td>1.6456 mL</td>
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<tr>
<td></td>
<td></td>
<td>5 mM</td>
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<td>5 mg</td>
<td>1 mM</td>
<td>8.2279 mL</td>
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<td>10 mM</td>
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<tr>
<td></td>
<td>10 mg</td>
<td>1 mM</td>
<td>16.4558 mL</td>
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<td>5 mM</td>
<td>3.2912 mL</td>
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<tr>
<td></td>
<td></td>
<td>10 mM</td>
<td>1.6456 mL</td>
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≥60.8 mg/mL in EtOH; insoluble in H2O; ≥102 mg/mL in DMSO

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

Biological Activity

Shortsummary: Eph receptor inhibitor

IC50 & Target:

Cell Viability Assay

Cell Line: Non–small cell lung cancer (NSCLC) PC-9/ER, PC-9/ERC15, PC-9/ERC16 cell lines

Preparation method: Soluble in DMSO. 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, 72 h
Applications: Treatment with 1 μM ALW-II-41-27 inhibited cell proliferation and increased apoptosis in erlotinib-resistant NSCLC cell lines. Apoptosis induced by ALW-II-41-27 was accompanied by the increase of cleavage of caspase-3 and PARP as well as decreased expression of antiapoptotic proteins BCL-xL and MCL-1.

In Vivo

Animal experiment
Animal models: 6-week-old athymic nude mice
Dosage form: Intraperitoneal injection, 15, 30 mg/kg, twice daily
Applications: Administration of ALW-II-41-27 to tumor-bearing mice significantly inhibited H358 tumor growth. Histological analysis showed that tumors treated with ALW-II-41-27 had a significant increase of apoptosis compared with tumors treated with NG-25 or vehicle alone, similar to genetic ablation of EPHA2.

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.