Cathepsin S inhibitor

Cat. No.: A3284
CAS No.: 1373215-15-6
Formula: C25H29FN4O5
M.Wt: 484.52
Synonyms: 
Target: Proteases
Pathway: Cathepsin
Storage: Store at -20°C

Solvent & Solubility

≥24.25 mg/mL in DMSO, insoluble in EtOH, insoluble in H2O

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Mass</th>
<th>1mg</th>
<th>5mg</th>
<th>10mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Solvent Concentration</td>
<td>1 mM</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>2.0639 mL</td>
<td>10.3195 mL</td>
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<tr>
<td></td>
<td></td>
<td>5 mM</td>
<td>0.4128 mL</td>
<td>2.0639 mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mM</td>
<td>0.2064 mL</td>
<td>1.0319 mL</td>
</tr>
</tbody>
</table>

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

Biological Activity

Shortsummary: Blocks MHCII antigen presentation

IC50 & Target

In Vitro

Cell Viability Assay

Preparation method:

Animal experiment

Animal models: Mouse model of abdominal aortic aneurysm (AAA)
Dosage form: 1, 3, 10, and 30 mg/kg, oral, BID dosing
Applications: The efficacies of Cathepsin S inhibitor was studied in a mouse model of abdominal aortic aneurysm (AAA). Cathepsin S inhibitor exhibited a
dose-responsive aortic diameter reduction at 1, 3, 10, and 30 mg/kg. At the lowest dose of 1 mg/kg of Cathepsin S inhibitor, the aortic diameter is reduced by 58%, then 83% at 3 mg/kg, and 87% at 10 mg/kg.

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.