Cyclosporin A

Product Data Sheet

Product Name: Cyclosporin A
Revision Date: 08/14/2020

Cat. No.: B1922
CAS No.: 59885-13-3
Formula: C62H111N11O12
M.Wt: 1202.61
Synonyms: Cyclosporine, Ciclosporin
Target:
Pathway:
Storage: Store at -20°C

Solvent & Solubility

<table>
<thead>
<tr>
<th>In Vitro Stock Solutions</th>
<th>Mass Concentration</th>
<th>Mass 1mg</th>
<th>Mass 5mg</th>
<th>Mass 10mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>0.8315 mL</td>
<td>4.1576 mL</td>
<td>8.3152 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.1663 mL</td>
<td>0.8315 mL</td>
<td>1.6630 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.0832 mL</td>
<td>0.4155 mL</td>
<td>0.8315 mL</td>
</tr>
</tbody>
</table>

≥60.15mg/mL in DMSO

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

Biological Activity

Shortsummary: Immunosuppressive agent

IC50 & Target

In Vitro

Cell Viability Assay

Preparation method: The solubility of this compound in DMSO is ≥60.2 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 μM, 24h

Applications: Pretreatment of fresh T cells with CsA during primary TCR stimulation
Intraperitoneal injection, 5 mg/kg per day

Applications: CsA significantly promoted RGC survival in ischemic retina. CsA treatment significantly decreased GFAP and CypD protein expression in ischemic retina at 12 h. CsA treatment decreased CypD immunoreactivity in the inner layer of ischemic retina.

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


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 APEX BIO 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.