Cyclosporin A

Cat. No.: B1922
CAS No.: 59865-13-3
Formula: C62H111N11O12
M.Wt: 1202.61
Synonyms: Cyclosporine, Ciclosporin
Target:
Pathway:
Storage: Store at -20°C

Solvent & Solubility

≥60.15 mg/mL in DMSO; insoluble in H2O; ≥50.8 mg/mL in EtOH

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Mass</th>
<th>1mg</th>
<th>5mg</th>
<th>10mg</th>
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<td>1 mM</td>
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<td>10 mM</td>
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Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Short summary: Immunosuppressive agent

IC₅₀ & Target

Cell Viability Assay

Cell Line: Jurkat T cells and A549 lung carcinoma cells
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 decreased their production of TGF-β1 during secondary stimulation. Higher concentrations of CsA (10 μM) promoted the release of preformed TGF-β1 by inducing apoptosis.

Animal experiment

Animal models: Female retinal ischemia C57BL/6 mouse model
Dosage form: 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


Caution

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

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