Suplatast (Tosilate)

Cat. No.: HY-17002
CAS No.: 94055-76-2
Molecular Formula: C₂₃H₃₃NO₇S₂
Molecular Weight: 499.64
Target: Interleukin Related
Pathway: Immunology/Inflammation
Storage: Powder -20°C 3 years
         4°C 2 years
         In solvent -80°C 6 months
         -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 33 mg/mL (66.05 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>2.0014 mL</td>
<td>10.0072 mL</td>
<td>20.0144 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4003 mL</td>
<td>2.0014 mL</td>
<td>4.0029 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2001 mL</td>
<td>1.0007 mL</td>
<td>2.0014 mL</td>
</tr>
</tbody>
</table>

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.00 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.00 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Suplatast Tosilate (IPD 1151T) is a Th2 cytokine inhibitor that attenuates IL-2, IL-5 and IL-13 production and has no effect on IFN-γ production. IC₅₀ value: Target: Th2 cytokine inhibitor Suplatast Tosilate acts as an immunoregulator that suppresses IgE production, eosinophil infiltration and histamine release. Suplatast Tosilate (IPD 1151T) exhibits antiasthmatic, anti-inflammatory and antifibrotic activity in vivo and is orally active.
REFERENCES


