AG 1295

Cat. No.: HY-101957
CAS No.: 71897-07-9
Molecular Formula: C₁₆H₁₄N₂
Molecular Weight: 234.3
Target: PDGFR
Pathway: Protein Tyrosine Kinase/RTK
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: 62.5 mg/mL (266.75 mM; Need ultrasonic)

<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>1 mM</td>
<td></td>
<td>4.2680 mL</td>
<td>21.3402 mL</td>
<td>42.6803 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.8536 mL</td>
<td>4.2680 mL</td>
<td>8.5361 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.4268 mL</td>
<td>2.1340 mL</td>
<td>4.2680 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: ≥ 2.08 mg/mL (8.88 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (8.88 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (8.88 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
AG 1295 is a selective platelet-derived growth factor receptor (PDGFR) tyrosine-kinase inhibitor. AG 1295 reduces neointimal formation in aortic allograft vasculopathy by inhibition of PDGFR-beta-triggered tyrosine phosphorylation [1][2].

IC₅₀ & Target
PDGFR[1]
REFERENCES
