GW 766994

**Cat. No.:** HY-107051  
**CAS No.:** 408303-43-5  
**Molecular Formula:** C₂₁H₂₄Cl₂N₄O₃  
**Molecular Weight:** 451.35  
**Target:** CCR  
**Pathway:** GPCR/G Protein; 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 : 56 mg/mL (124.07 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.2156 mL</td>
<td>11.0779 mL</td>
<td>22.1558 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4431 mL</td>
<td>2.2156 mL</td>
<td>4.4312 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2216 mL</td>
<td>1.1078 mL</td>
<td>2.2156 mL</td>
<td></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: ≥ 2.33 mg/mL (5.16 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.33 mg/mL (5.16 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.33 mg/mL (5.16 mM); Clear solution

### BIOLOGICAL ACTIVITY

**Description**  
GW 766994 (GW 994) is an orally active and specific chemokine receptor-3 (CCR3) antagonist. GW 766994 has the potential for asthma and eosinophilic bronchitis research\(^1\)\(^2\).

**IC\(_{50}\) & Target**  
CCR3  
7.86 (pKi)
GW 766994 is a specific chemokine receptor-3 (CCR3) antagonist, which has entered clinical trial for asthma and eosinophilic bronchitis\[1\]. GW 766994 (10 μM) reverses CCL11-induced activation of CDK5, phosphorylations of CDK5, GSK3β, and increased phosphorylation of tau in hippocampal neurons\[2\].

REFERENCES
