**Glucocorticoid receptor agonist**

**Cat. No.:** HY-14234  
**CAS No.:** 1245526-82-2  
**Molecular Formula:** C₂₀H₂₀F₄N₂O₂  
**Molecular Weight:** 396.38  
**Target:** Glucocorticoid Receptor  
**Pathway:** GPCR/G Protein  
**Storage:**  
- Powder: -20°C for 3 years, 4°C for 2 years, In solvent: -80°C for 6 months, -20°C for 1 month

### SOLVENT & SOLUBILITY

#### In Vitro  
DMSO: ≥ 100 mg/mL (252.28 mM)  
*“≥” means soluble, but saturation unknown.*

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>2.5228 mL</td>
<td>12.6142 mL</td>
<td>25.2283 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.5046 mL</td>
<td>2.5228 mL</td>
<td>5.0457 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2523 mL</td>
<td>1.2614 mL</td>
<td>2.5228 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 (6.31 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.5 mg/mL (6.31 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.5 mg/mL (6.31 mM); Clear solution

### BIOLOGICAL ACTIVITY

**Description**  
Glucocorticoid receptor agonist is a potent Glucocorticoid receptor agonist. IC₅₀ value:

### PROTOCOL

**Product Data Sheet**

Animal administration [1] Female Balb/c mice weighing approximately 20 g were used. Mice were administered the test compound and in Cremophor (po) approximately 60 min prior to LPS/D-gal administration. The volume of oral gavage was 0.15 mL. Then mice were administered LPS (E. coli LPS 055:85, 1.0 μg/mouse) plus D-gal (50 mg/kg) intravenously in 0.2 mL of pyrogen-free saline. One hour after LPS/D-gal, each mouse was anesthetized, bled by cardiac puncture, and collected for serum TNF-R and compound levels. Blood samples were centrifuged at 2500 rpm for 10-15 min, the serum was decanted, and samples were stored frozen at -70°C until transfer either for TNF-R determination or to Drug Metabolism and Pharmacokinetics for plasma concentration analysis by HPLC. The concentration of TNF-R in the serum was measured by a commercially available ELISA kit. ELISA was performed. All samples are assayed in duplicate.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA