Y-320

Cat. No.: HY-15898
CAS No.: 288250-47-5
Molecular Formula: C₂₇H₂₉ClN₆O₂
Molecular Weight: 505.01
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: 5.5 mg/mL (10.89 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></td>
<td>Solvent Concentration</td>
<td>1 mM</td>
<td>5 mM</td>
<td>10 mM</td>
</tr>
<tr>
<td>1 mM</td>
<td>1.9802 mL</td>
<td>9.9008 mL</td>
<td>19.8016 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3960 mL</td>
<td>1.9802 mL</td>
<td>3.9603 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1980 mL</td>
<td>0.9901 mL</td>
<td>1.9802 mL</td>
<td></td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
Y-320 is a new phenylpyrazoleanilide immunomodulator; inhibits IL-17 production by CD4 T cells stimulated with IL-15 with IC₅₀ values of 20 to 60 nM. IC₅₀ value: 20-60 nM (IL-17 production) [1] Target: IL-17
Y-320 inhibited IL-17 production by CD4 T cells stimulated with IL-15 with IC₅₀ values of 20 to 60 nM. Oral administration of Y-320 (0.3 to 3 mg/kg) significantly inhibited the development and progression of arthritis and joint destruction with reduction of IL-17 mRNA expression in arthritic joints of type II collagen-induced arthritis (CIA) in DBA/1J mice. Y-320 in combination with anti-murine tumor necrosis factor-α monoclonal antibody showed a synergistic effect on mouse CIA. Moreover, therapeutic treatment with Y-320 (0.3 and 1 mg/kg orally) ameliorated CIA in cynomolgus monkeys [1].

REFERENCES

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

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