Ziresovir

Cat. No.: HY-109142  
CAS No.: 142250-60-4  
Molecular Formula: C₂₂H₂₅N₅O₃S  
Molecular Weight: 439.53  
Target: RSV  
Pathway: Anti-infection  
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: 125 mg/mL (284.39 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Concentration</th>
<th>Solvent</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td></td>
<td>2.2752 mL</td>
<td>11.3758 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.4550 mL</td>
<td>2.2752 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.2275 mL</td>
<td>1.1376 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 (4.73 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.73 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description  
Ziresovir (AK0529;RO-0529) is a potent, selective, and orally bioavailable respiratory syncytial virus (RSV) fusion (F) protein (RSV F) protein inhibitor. Ziresovir shows anti-RSV activity (EC₅₀=3 nM) and highlights pharmacokinetics in animal species[1].

IC₅₀ & Target  
EC₅₀: 3 nM (RSV F)[1]

REFERENCES

www.MedChemExpress.com

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

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