Saquinavir

Cat. No.: HY-17007
CAS No.: 127779-20-8
Molecular Formula: \( \text{C}_{38}\text{H}_{50}\text{N}_{6}\text{O}_{5} \)
Molecular Weight: 670.84
Target: HIV; HIV Protease
Pathway: Anti-infection; Metabolic Enzyme/Protease
Storage:
- Powder: -20°C, 3 years; 4°C, 2 years
- In solvent: -80°C, 6 months; -20°C, 1 month

SOLVENT & SOLUBILITY

In Vitro

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass (1 mg)</th>
<th>Mass (5 mg)</th>
<th>Mass (10 mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>1.4907 mL</td>
<td>7.4533 mL</td>
<td>14.9067 mL</td>
</tr>
<tr>
<td>1 mM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.2981 mL</td>
<td>1.4907 mL</td>
<td>2.9813 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1491 mL</td>
<td>0.7453 mL</td>
<td>1.4907 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 (3.73 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (3.73 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Saquinavir (Ro 31-8959) is an HIV Protease inhibitor used in antiretroviral therapy. IC50 Value: Target: HIV Protease
Saquinavir is a protease inhibitor. Proteases are enzymes that cleave protein molecules into smaller fragments. HIV protease is vital for both viral replication within the cell and release of mature viral particles from an infected cell. Saquinavir binds to the active site of the viral protease and prevents cleavage of viral polyproteins, preventing maturation of the virus. Saquinavir inhibits both HIV-1 and HIV-2 proteases. Studies have also looked at Saquinavir as a possible anti-cancer agent.
CUSTOMER VALIDATION

- J Pharm Sci. 2017 Sep;106(9):2839-2846.

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REFERENCES


[3]. Saquinavir


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

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