HIV-1 integrase inhibitor 2

Cat. No.: HY-10522
CAS No.: 957890-42-5
Molecular Formula: C₂₁H₂₀ClNO₂
Molecular Weight: 353.84
Target: HIV; HIV Integrase
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
DMSO : ≥ 100 mg/mL (282.61 mM)
H₂O : < 0.1 mg/mL (insoluble)
* "≥" means soluble, but saturation unknown.

<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>Concentration</td>
<td>1 mM</td>
<td>5 mM</td>
<td>10 mM</td>
</tr>
<tr>
<td>1 mM</td>
<td></td>
<td>2.8261 mL</td>
<td>14.1307 mL</td>
<td>28.2614 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.5652 mL</td>
<td>2.8261 mL</td>
<td>5.6523 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.2826 mL</td>
<td>1.4131 mL</td>
<td>2.8261 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 (7.07 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
HIV-1 integrase inhibitor 2, in the treatment of human immunodeficiency virus (HIV) infection.

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• Molecular Medicine & Haematology National Health Laboratory Services. University of the Witwatersrand.
• Faculty of Health Sciences. University of the Witwatersrand. 2019 May.

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