HIV-1 integrase inhibitor

Cat. No.: HY-13025
CAS No.: 544467-07-4
Molecular Formula: C₁₁H₉N₃O₄
Molecular Weight: 247.21
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 (404.51 mM)
H₂O : < 0.1 mg/mL (insoluble)
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>4.0451 mL</td>
<td>20.2257 mL</td>
<td>40.4514 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.8090 mL</td>
<td>4.0451 mL</td>
<td>8.0903 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.4045 mL</td>
<td>2.0226 mL</td>
<td>4.0451 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 (10.11 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (10.11 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
HIV-1 integrase inhibitor is useful for anti-HIV.

REFERENCES

[1]. Hobaika, Z.; Zargarian, L.; Maroun, R. G.; Mauffret, O.; Burke, T. R., Jr.; Fermandjian, S. HIV-1 Integrase and Virus and Cell DNAs: Complex Formation and
Perturbation by Inhibitors of Integration. Neurochemical Research (2010), 35(6), 888-893.


