Lamivudine

Cat. No.: HY-B0250
CAS No.: 134678-17-4
Molecular Formula: C₈H₁₁N₃O₃S
Molecular Weight: 229.26
Target: HIV; Reverse Transcriptase
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 : 50 mg/mL (218.09 mM; Need ultrasonic)
H₂O : ≥ 50 mg/mL (218.09 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>4.3619 mL</td>
<td>21.8093 mL</td>
<td>43.6186 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.8724 mL</td>
<td>4.3619 mL</td>
<td>8.7237 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.4362 mL</td>
<td>2.1809 mL</td>
<td>4.3619 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 (10.90 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (10.90 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (10.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Lamivudine (BCH-189) is a nucleoside reverse transcriptase inhibitors (NRTIs). Lamivudine (BCH-189) can inhibit HIV reverse transcriptase 1/2 and also the reverse transcriptase of hepatitis B virus.
CUSTOMER VALIDATION

- Virus Res. 2019 Jul 31:197677.

See more customer validations on www.MedChemExpress.com

REFERENCES


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

Tel: 609-228-6898           Fax: 609-228-5909           E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA