Nucleoside-Analog-2

Cat. No.: HY-77652
CAS No.: 876708-01-9
Molecular Formula: C₉H₁₁N₅O₆
Molecular Weight: 285.21
Target: Nucleoside Antimetabolite/Analog; HCV
Pathway: Cell Cycle/DNA Damage; Anti-infection
Storage: Powder -20°C 3 years
9°C 2 years
In solvent -80°C 2 years
-20°C 1 year

SOLVENT & SOLUBILITY

In Vitro
DMSO : 33.33 mg/mL (116.86 mM; Need ultrasonic)
H₂O : 20 mg/mL (70.12 mM; Need ultrasonic)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass (mg/mL)</th>
<th>Concentration (mM)</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>3.5062 mL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.7012 mL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3506 mL</td>
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</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

In Vivo
1. Add each solvent one by one: PBS
   Solubility: 16.67 mg/mL (58.45 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (8.77 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (8.77 mM); Clear solution; Need ultrasonic
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (8.77 mM); Clear solution; Need ultrasonic

BIological ACTIVITY

Description
Nucleoside-Analog-2 is a 4'-Azidocytidine analogue against Hepatitis C virus (HCV) replication. Nucleoside-Analog-2 is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.
In Vitro

Nucleoside Analog 2 is a 4′-Azidocytidine analogue against Hepatitis C virus (HCV) replication. Reference to compound 12[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION


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REFERENCES