Celgosivir

Cat. No.: HY-16134  
CAS No.: 121104-96-9  
Molecular Formula: C₁₂H₂₁NO₅  
Molecular Weight: 259.3  
Target: HCV  
Pathway: Anti-infection  
Storage: Please store the product under the recommended conditions in the COA.

Solvent & Solubility

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Solvent</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></td>
<td>3.8565 mL</td>
<td>19.2827 mL</td>
<td>38.5654 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.7713 mL</td>
<td>3.8565 mL</td>
<td>7.7131 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.3857 mL</td>
<td>1.9283 mL</td>
<td>3.8565 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
Celgosivir is a novel α-glucosidase I inhibitor, an enzyme that plays a critical role in viral maturation by initiating the processing of the N-linked oligosaccharides of viral envelope glycoproteins.[1] IC₅₀: 16 and 47 umol/L (Using plaque assay and a cytopathic assay).[2]targetAlpha-glucosidase I Infection[1]In vitro: The quantity of THP-1 cells is 1 × 10⁵, cells were washed once with media and replaced with 500 μl with a serial 4-fold dilution starting from 200 μM or 50 μM.[3]in vivo: Celgosivir, stored at 100 mg/ml in PBS at ?30 °C, were diluted with PBS before each dosing to obtain 1 mg/200 μl (50 mg/kg) or 0.2 mg/200 μl (10 mg/kg). [3]

REFERENCES


[3]. Satoru WatanabeKitti Wing-Ki Chan et al. Optimizing celgosivir therapy in mouse models of dengue virus infection of serotypes 1 and 2: The search for