Asunaprevir (BMS-650032)

Cat. No.: A3195
CAS No.: 630420-16-5
Formula: C35H46ClN5O9S
M.Wt: 748.29
Synonyms: BMS-650032; BMS650032; Asunaprevir
Target: Proteases
Pathway: HCV Protease
Storage: Store at -20°C

Solvent & Solubility

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Mass Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>1.3364 mL</td>
<td>6.6819 mL</td>
<td>13.3638 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.2673 mL</td>
<td>1.3364 mL</td>
<td>2.6728 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.1336 mL</td>
<td>0.6682 mL</td>
<td>1.3364 mL</td>
</tr>
</tbody>
</table>

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

Biological Activity

Short summary
NS3 protease inhibitor

IC₅₀ & Target

Cell Viability Assay

Cell Line: HuH-7, MRC5, MT-2, HepG2, HeLa and HEK293 cells
Preparation method: Soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions: 4 days
**Applications:**
Asunaprevir inhibited HCV RNA replication in different cell lines, including liver, T lymphocytes, lung, cervix, and embryonic kidney. It showed no obvious activity against other RNA viruses.

**Animal experiment**

<table>
<thead>
<tr>
<th>Animal models:</th>
<th>Rats</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dosage form:</td>
<td>10 μM; p.o.; 60 mins</td>
</tr>
</tbody>
</table>

**Applications:**
After oral dosing to the rat, Asunaprevir demonstrated modest oral bioavailability and a plasma AUC of 1.0 μM·h. However, at the 24th hrs after p.o. dosing, the liver levels of Asunaprevir were high at 15.2 μM, suggesting a hepatotropic distribution in vivo.

**Other notes:**
Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

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### Product Citations


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### References


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of the product, follow the storage recommendations on the product data sheet.