Moroxydine hydrochloride

Cat. No.: HY-B0420A
CAS No.: 3160-91-6
Molecular Formula: C₆H₁₄ClN₅O
Molecular Weight: 207.66
Target: Influenza Virus
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

\[ \text{H}_2\text{O} : \geq 44 \text{ mg/mL (211.88 mM)} \]

*“≥” 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>4.8156 mL</td>
<td>24.0778 mL</td>
<td>48.1556 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.9631 mL</td>
<td>4.8156 mL</td>
<td>9.6311 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.4816 mL</td>
<td>2.4078 mL</td>
<td>4.8156 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description

Moroxydine HCl is a synthetic antiviral compound chemically belonging to the series of the heterocyclic biguanidines. Target: Influenza Virus

Moroxydine is an antiviral drug that was originally developed in the 1950s as an influenza treatment. It has potential applications against a number of RNA and DNA viruses [1]. Structurally moroxydine is a heterocyclic biguanidine. Moroxydine was reported in March 2014 that three kindergartens in two provinces of China had been found to be secretly dosing their students with moroxydine hydrochloride to try to prevent them from becoming ill. The kindergartens are paid only for the days that pupils attend and wanted to ensure that they maximised their earnings [2].

REFERENCES
