Sodium gualenate

Cat. No.: HY-B2191
CAS No.: 6223-35-4
Molecular Formula: C_{15}H_{17}NaO_{3}S
Molecular Weight: 300.35
Target: Others
Pathway: Others
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 : 30 mg/mL (99.88 mM; Need ultrasonic and warming)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>3.3294 mL</td>
<td>16.6472 mL</td>
<td>33.2945 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.6659 mL</td>
<td>3.3294 mL</td>
<td>6.6589 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3329 mL</td>
<td>1.6647 mL</td>
<td>3.3294 mL</td>
<td></td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
Sodium gualenate (Guaiazulenesulfonate sodium) is a hydrophilic derivative of guaiazulene with excellent anti-inflammatory and wound-healing effects mainly used for the treatment of duodenal ulcer, gastric ulcer and gastritis.

In Vitro
Sodium gualenate is an unstable compound, which is gradually decomposed in the solid state at room temperature. When heated, Sodium gualenate decomposes almost completely within 1 week. It was found that a kneaded mixture of Sodium gualenate and cornstarch (weight ratio; 1:250) for tableting with water is stable. So, during production, Sodium gualenate could be stabilized using water\(^1\). Sodium gualenate slightly inhibits the histamine release from rat peritoneal mast cells and strongly inhibits the leukocyte emigration induced by fMLP\(^2\).

In Vivo
Sodium gualenate has been frequently used for the treatment of human gastritis. Cytoprotection is defined as the main mechanism of Sodium gualenate to protect the mucosa of the stomach and the antipeptic actions in vivo have also been shown\(^2\).
REFERENCES


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