**Bethanechol chloride**

Cat. No.: HY-B0406A  
CAS No.: 590-63-6  
Molecular Formula: C₇H₁₇ClN₂O₂  
Molecular Weight: 196.68  
Target: mAChR  
Pathway: GPCR/G Protein; Neuronal Signaling  
Storage: Powder  
-20°C  3 years  
4°C  2 years  
In solvent  
-80°C  6 months  
-20°C  1 month

**Solvent & Solubility**

<table>
<thead>
<tr>
<th>Solvent &amp; Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Preparation</strong></td>
<td><strong>Concentration</strong></td>
<td><strong>H₂O</strong>: ≥ 50 mg/mL (254.22 mM)</td>
<td><strong>DMSO</strong>: 11.11 mg/mL (56.49 mM; Need ultrasonic)</td>
</tr>
<tr>
<td>1 mM</td>
<td>5.0844 mL</td>
<td>25.4220 mL</td>
<td>50.8440 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>1.0169 mL</td>
<td>5.0844 mL</td>
<td>10.1688 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.5084 mL</td>
<td>2.5422 mL</td>
<td>5.0844 mL</td>
</tr>
</tbody>
</table>

*“≥” means soluble, but saturation unknown.*

**BIOLICAL ACTIVITY**

**Description**  
Bethanechol Chloride is a selective muscarinic receptor agonist without any effect on nicotinic receptors. Target: mAChR  
Bethanechol is a parasympathomimetic choline carbamate that selectively stimulates muscarinic receptors without any effect on nicotinic receptors. Unlike acetylcholine, bethanechol is not hydrolyzed by cholinesterase and will therefore have a long duration of action. Oral bethanechol significantly improves contraction pressures and bolus transit in the smooth muscle portion of the esophagus in patients with severe IEM [1]. Bethanechol has potential benefit in the treatment of cerebral palsy [2].

**REFERENCES**