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

In Vitro
10 mM in DMSO

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td></td>
<td>5.0844 mL</td>
<td>25.4220 mL</td>
<td>50.8440 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>1.0169 mL</td>
<td>5.0844 mL</td>
<td>10.1688 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.5084 mL</td>
<td>2.5422 mL</td>
<td>5.0844 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL 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