SA504

Cat. No.: HY-U00184
CAS No.: 35035-05-3
Molecular Formula: C₁₇H₂₂BrNOS₂
Molecular Weight: 400.4
Target: mAChR
Pathway: GPCR/G Protein; Neuronal Signaling
Storage: Please store the product under the recommended conditions in the COA.

Solvent & Solubility

In Vitro
10 mM in DMSO

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.4975 mL</td>
<td>12.4875 mL</td>
<td>24.9750 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4995 mL</td>
<td>2.4975 mL</td>
<td>4.9950 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2498 mL</td>
<td>1.2488 mL</td>
<td>2.4975 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
SA504 is an anticholinergic agent.

IC₅₀ & Target
Cholinergic[1]

In Vivo
Effects of SA504 (Timepidium bromide, TB), acetylcholine (ACh) and neostigmine (Neost) on gastric and duodenal blood flow distribution are studied by the use of ¹³¹I-labeled macroaggregated human serum albumin (MAA) in rabbits. In normal rabbits, gastric blood flow is found to be uneven in various regions of the stomach: anterior corpus (50% of total gastric blood flow) greater than posterior corpus (40%) greater than pyloric antrum (7%). Intravenous administration of SA504 (200 μg/kg) to normal rabbits produces a slight increase in total gastric blood flow, but the increase in the mucosal layer of the pyloric antrum is considerable[1].

PROTOCOL

Animal Administration
Rabbits[1]
SA504 (200 μg/kg) is injected into the femoral vein 5 min prior to $^{131}$I-MAA. To evaluate the effects of SA504 on gastric and duodenal blood flow in cholinergic drug-treated animals, SA504 is administered in a dose of 200 μg/kg through the femoral vein 3 min before ACh or 5 min after Neost. $^{131}$I-MAA is given into the left ventricle of the animals 2 min after ACh and 10 min after Neost.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES


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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA