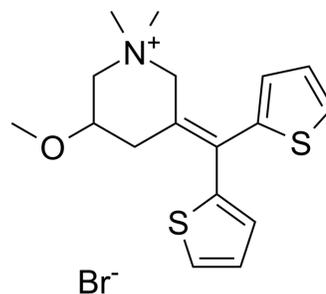


## Timepidium bromide

Cat. No.:	HY-U00184
CAS No.:	35035-05-3
Molecular Formula:	C <sub>17</sub> H <sub>22</sub> BrNOS <sub>2</sub>
Molecular Weight:	400.4
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Timepidium bromide (Sesden; SA504) is an anticholinergic agent.
<b>IC<sub>50</sub> &amp; Target</b>	Cholinergic <sup>[1]</sup>
<b>In Vivo</b>	<p>Effects of Timepidium bromide (TB), acetylcholine (ACh) and neostigmine (Neost) on gastric and duodenal blood flow distribution are studied by the use of <sup>131</sup>I-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 Timepidium bromide (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<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### PROTOCOL

<b>Animal Administration</b> <sup>[1]</sup>	<p>Rabbits<sup>[1]</sup></p> <p>Timepidium bromide (200 µg/kg) is injected into the femoral vein 5 min prior to <sup>131</sup>I-MAA. To evaluate the effects of Timepidium bromide on gastric and duodenal blood flow in cholinergic drug-treated animals, Timepidium bromide is administered in a dose of 200 µg/kg through the femoral vein 3 min before ACh or 5 min after Neost. <sup>131</sup>I-MAA is given into the left ventricle of the animals 2 min after ACh and 10 min after Neost.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
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### CUSTOMER VALIDATION

- Research Square Preprint. 2021 Aug.

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### REFERENCES

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[1]. Naito K, et al. Effect of timepidium bromide, an anticholinergic agent, on gastric and duodenal blood flow distribution in rabbits. Jpn J Pharmacol. 1982 Feb;32(1):73-80.

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

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