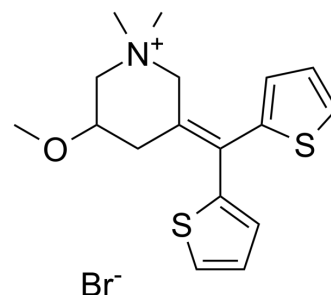


Timepidium bromide

Cat. No.:	HY-U00184
CAS No.:	35035-05-3
Molecular Formula:	C ₁₇ H ₂₂ BrNOS ₂
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

Description	Timepidium bromide (Sesden; SA504) is an anticholinergic agent.
IC₅₀ & Target	Cholinergic ^[1]
In Vivo	<p>Effects of 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 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^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

PROTOCOL

Animal Administration ^[1]	<p>Rabbits^[1]</p> <p>Timepidium bromide (200 µg/kg) is injected into the femoral vein 5 min prior to ¹³¹I-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. ¹³¹I-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

[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.

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

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