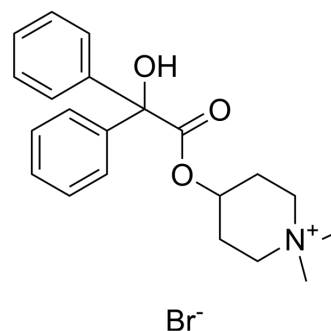


Parapenzolate bromide

Cat. No.:	HY-105771
CAS No.:	5634-41-3
Molecular Formula:	C ₂₁ H ₂₆ BrNO ₃
Molecular Weight:	420.34
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	Parapenzolate bromide, an antispasmodic, is an orally active mAChR antagonist. Parapenzolate bromide is an anticholinergic agent ^{[1][2]} .																	
In Vivo	<p>Parapenzolate bromide (10 mg/kg, p.o. or i.v.) shows a significant analgesic effect in mice^[1].</p> <p>Parapenzolate bromide (0.5 mg/kg, i.v.) exhibits a spasmolytic activity in isolated gall bladder from guinea pigs^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Mice^[1]</td> </tr> <tr> <td>Dosage:</td> <td>10 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Oral administration (p.o.) or intravenous injection (i.v.)</td> </tr> <tr> <td>Result:</td> <td>Prolonged the time until death in convulsive mice.</td> </tr> </table> <table border="1"> <tr> <td>Animal Model:</td> <td>Guinea pigs^[2]</td> </tr> <tr> <td>Dosage:</td> <td>0.5 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intravenous injection (i.v.)</td> </tr> <tr> <td>Result:</td> <td>Antagonized contractions induced by acetylcholine (100 µg/kg, i.v.)</td> </tr> </table>		Animal Model:	Mice ^[1]	Dosage:	10 mg/kg	Administration:	Oral administration (p.o.) or intravenous injection (i.v.)	Result:	Prolonged the time until death in convulsive mice.	Animal Model:	Guinea pigs ^[2]	Dosage:	0.5 mg/kg	Administration:	Intravenous injection (i.v.)	Result:	Antagonized contractions induced by acetylcholine (100 µg/kg, i.v.)
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Result:	Antagonized contractions induced by acetylcholine (100 µg/kg, i.v.)																	

REFERENCES

- [1]. Paris, J., et al. Effect of parapenzolate bromide on the contractility of the gall bladder and sphincter of Oddi. *Therapie* (1968), 23(3), 609-18.
- [2]. Ishimura Yasuko, et al. Pharmacological studies on parapenzolate bromide. 1. Pharmacological studies. *Shikoku Igaku Zasshi* (1970), 26(1), 43-51.

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

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