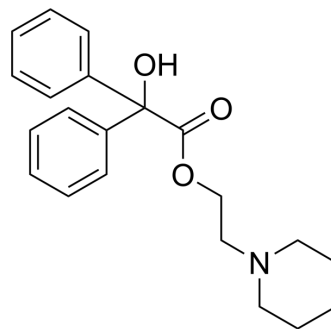


## Piperilate

<b>Cat. No.:</b>	HY-105790
<b>CAS No.:</b>	4546-39-8
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>25</sub> NO <sub>3</sub>
<b>Molecular Weight:</b>	339.43
<b>Target:</b>	Cholinesterase (ChE)
<b>Pathway:</b>	Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Piperilate (Pipethanate) is one of the mixtures of hexazepine derivative PAF antagonists with anticholinergics, can be used for bronchial asthma research. Piperilate also causes hypotension and rescues mice poisoned by the organophosphates <sup>[1][2][3]</sup> .								
<b>In Vivo</b>	<p>Piperilate (11.3 mg/kg, 29.42 mg/kg; i.p.; single dose) shows anticholinergic activity, and (30 mg/kg; i.p.; single dose) exerts efficacy in mice poisoned by the organophosphates<sup>[1]</sup>.</p> <p>Piperilate (1 mg/kg; i.v.) causes hypotension in rabbit which is not blocked by dichloroisoproterenol or <a href="#">Atropine</a> (HY-B1205)<sup>[2]</sup>.</p> <p>Piperilate (3 mg/kg; i.v.) decreases respiration and heart rate of test rabbits, blocks the <a href="#">Adrenaline</a> (HY-122304)-induced constriction of an isolated rabbit auricle preparation<sup>[2]</sup>.</p> <p>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>Male albino mice (18-22 g)<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>11.3 mg/kg, 29.42 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intraperitoneal injection; single dose</td> </tr> <tr> <td>Result:</td> <td>Showed anticholinergic activity with EC<sub>50</sub> values of 11.33 mg/kg (antagonism of oxotremorine induced salivation) and 29.42 mg/kg (antagonism of oxotremorine induced tremor) in mice.</td> </tr> </table>	Animal Model:	Male albino mice (18-22 g) <sup>[1]</sup>	Dosage:	11.3 mg/kg, 29.42 mg/kg	Administration:	Intraperitoneal injection; single dose	Result:	Showed anticholinergic activity with EC <sub>50</sub> values of 11.33 mg/kg (antagonism of oxotremorine induced salivation) and 29.42 mg/kg (antagonism of oxotremorine induced tremor) in mice.
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### REFERENCES

- [1]. Faff J, et al. Therapeutic effects of some cholinolytics in organophosphate intoxications. Arch Toxicol. 1976 Oct 28;36(2):139-46.
- [2]. Tanaka S, et al. [Studies on pharmacological effect of pipethanate. II. Effect of pipethanate on respiration, circulation system and smooth muscle]. Eisei Shikenjo Hokoku. 1971;89:54-8. Japanese.
- [3]. Heuer, et al. Synergistic combinations of PAF antagonists and anticholinergic agents as drugs for treatment of bronchial asthma: Germany, DE4219659. 1993-12-23.

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

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