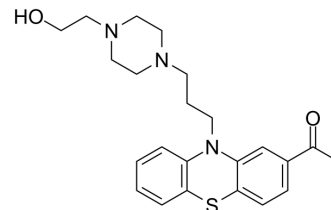


## Acetophenazine

<b>Cat. No.:</b>	HY-116916
<b>CAS No.:</b>	2751-68-0
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>29</sub> N <sub>3</sub> O <sub>2</sub> S
<b>Molecular Weight:</b>	411.56
<b>Target:</b>	Dopamine Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Acetophenazine, a phenothiazine derivative, is an antipsychotic agent. Acetophenazine primarily blocks dopamine D2 receptors in the brain. Acetophenazine can be used for researching psychotic disorders such as schizophrenia and anxious depression <sup>[1][2]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	D <sub>2</sub> Receptor								
<b>In Vivo</b>	<p>Acetophenazine (2.4 mg/kg; i.h.; single dosage) significantly prolongs the time lapse from the first fight to submission and the actual fighting time to submission in mice<sup>[3]</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>C57BL mice (10-12 weeks)<sup>[3]</sup></td> </tr> <tr> <td>Dosage:</td> <td>2.4 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>i.h.; single dosage</td> </tr> <tr> <td>Result:</td> <td>Significantly prolonged the time lapse from the first fight to submission and the actual fighting time to submission.</td> </tr> </table>	Animal Model:	C57BL mice (10-12 weeks) <sup>[3]</sup>	Dosage:	2.4 mg/kg	Administration:	i.h.; single dosage	Result:	Significantly prolonged the time lapse from the first fight to submission and the actual fighting time to submission.
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Dosage:	2.4 mg/kg								
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### REFERENCES

- [1]. Azam Bazrafshan, et al. Acetophenazine versus chlorpromazine for schizophrenia. Cochrane Database of Systematic Reviews. 2015, Issue 4.
- [2]. Hollister LE, et al. Acetophenazine and diazepam in anxious depressions. Arch Gen Psychiatry. 1971 Mar;24(3):273-8.
- [3]. KNIGHT WR, HOLTZ JR, SPROGIS GR. ACETOPHENAZINE AND FIGHTING BEHAVIOR IN MICE. Science. 1963 Aug 30;141(3583):830-1.

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

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