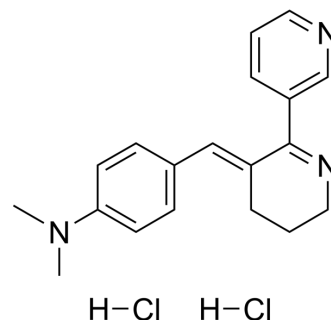


DMAB-anabaseine dihydrochloride

Cat. No.:	HY-107671
CAS No.:	154149-38-9
Molecular Formula:	C ₁₉ H ₂₃ Cl ₂ N ₃
Molecular Weight:	364.31
Target:	nAChR; nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DMAB-anabaseine dihydrochloride, an anabaseine compound, is a selective partial agonist for $\alpha 7$ nicotinic receptor ^[1] .								
In Vivo	<p>DMAB-anabaseine (2 mg/kg; i.p.; daily; for 30 days) dihydrochloride shows cognition-enhancing effects and improves long-term memory in rats^[2].</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 Sprague-Dawley rats (aged 22-24 months)^[2]</td> </tr> <tr> <td>Dosage:</td> <td>2 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>i.p.; daily; for 30 days</td> </tr> <tr> <td>Result:</td> <td>Enhanced reference memory in 17-arm radial maze testing.</td> </tr> </table>	Animal Model:	Male Sprague-Dawley rats (aged 22-24 months) ^[2]	Dosage:	2 mg/kg	Administration:	i.p.; daily; for 30 days	Result:	Enhanced reference memory in 17-arm radial maze testing.
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Dosage:	2 mg/kg								
Administration:	i.p.; daily; for 30 days								
Result:	Enhanced reference memory in 17-arm radial maze testing.								

REFERENCES

- [1]. K E Stevens, et al. Selective alpha7-nicotinic agonists normalize inhibition of auditory response in DBA mice. *Psychopharmacology (Berl)*. 1998 Apr;136(4):320-7.
- [2]. G W Arendash, et al. Improved learning and memory in aged rats with chronic administration of the nicotinic receptor agonist GTS-21. *Brain Res*. 1995 Mar 20;674(2):252-9.
- [3]. Stevens KE, et al. Selective alpha7-nicotinic agonists normalize inhibition of auditory response in DBA mice. *Psychopharmacology (Berl)*. 1998;136(4):320-327.

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

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