



# SZABO SCANDIC

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### SZABO-SCANDIC HandelsgmbH

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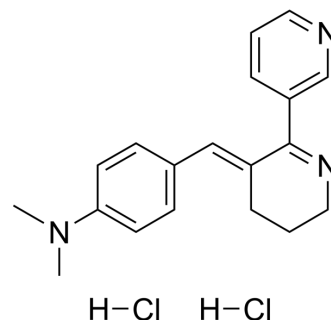
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## DMAB-anabaseine dihydrochloride

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



### BIOLOGICAL ACTIVITY

<b>Description</b>	DMAB-anabaseine dihydrochloride, an anabaseine compound, is a selective partial agonist for $\alpha 7$ nicotinic receptor <sup>[1]</sup> .								
<b>In Vivo</b>	<p>DMAB-anabaseine (2 mg/kg; i.p.; daily; for 30 days) dihydrochloride shows cognition-enhancing effects and improves long-term memory in rats<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 Sprague-Dawley rats (aged 22-24 months)<sup>[2]</sup></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) <sup>[2]</sup>	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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### 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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