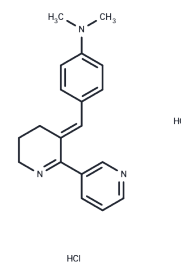


DMAB-anabaseine dihydrochloride

Chemical Properties

CAS No. :	154149-38-9
Formula:	C ₁₉ H ₂₃ Cl ₂ N ₃
Molecular Weight:	364.31
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	DMAB-anabaseine dihydrochloride (N,N-dimethyl-4-[(E)-(6-pyridin-3-yl-3,4-dihydro-2H-pyridin-5-ylidene)methyl]aniline;dihydrochloride) is an $\alpha 7$ -containing neuronal nicotinic receptor partial agonist and an antagonist at $\alpha 4\beta 2$ and other nicotinic receptors.
Targets(IC50)	AChR

Solubility Information

Solubility	DMSO: 3.65 mg/mL (10.02 mM), Sonication is recommended. H ₂ O: < 36.43 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7449 mL	13.7246 mL	27.4492 mL
5 mM	0.549 mL	2.7449 mL	5.4898 mL
10 mM	0.2745 mL	1.3725 mL	2.7449 mL
50 mM	0.0549 mL	0.2745 mL	0.549 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Stevens KE, Kem WR, Mahnir VM, Freedman R. Selective $\alpha 7$ -nicotinic agonists normalize inhibition of auditory response in DBA mice. *Psychopharmacology (Berl)*. 1998 Apr;136(4):320-7.
- Kem WR, Mahnir VM, Papke RL, Lingle CJ. Anabaseine is a potent agonist on muscle and neuronal α -bungarotoxin-sensitive nicotinic receptors. *J Pharmacol Exp Ther*. 1997 Dec;283(3):979-92.

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