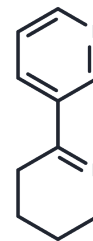


Anabaseine

Chemical Properties

CAS No. :	3471-05-4
Formula:	C10H12N2
Molecular Weight:	160.22
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	Anabaseine is a non-selective nicotinic agonist that stimulates all alpha-7 subtypes of AChRs, with a preference for those in skeletal muscle and the brain. Additionally, it acts as a weak partial agonist at alpha-4 beta-2 [nAChRs].
Targets(IC50)	Others,AChR
In vitro	Anabaseine serves as a full agonist at the $\alpha 7$ AChR within the central nervous system (CNS) and operates as a full agonist for $\alpha 1\beta 1\gamma \delta$ and $\alpha 1\beta 1\gamma \delta$ (Torpedo) receptors in the peripheral nervous system. Additionally, it functions as a neuromuscular agonist on the frog rectus abdominis muscle, demonstrating efficacy within a range of EC 50 values from 0.25 to 0.74 μ M.
In vivo	Anabaseine (3.6 μ mol/kg; subcutaneous injection) elevates ACh levels [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.2414 mL	31.2071 mL	62.4142 mL
5 mM	1.2483 mL	6.2414 mL	12.4828 mL
10 mM	0.6241 mL	3.1207 mL	6.2414 mL
50 mM	0.1248 mL	0.6241 mL	1.2483 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

Kem W, et al. The Nemertine Toxin Anabaseine and Its Derivative DMXBA (GTS-21): Chemical and Pharmacological Properties. *Mar Drugs*. 2006;4(3):255-273.

Summers KL et al. Nicotinic agonist modulation of neurotransmitter levels in the rat frontoparietal cortex. *Jpn J Pharmacol*. 1997 Jun;74(2):139-46.

Andrud K, et al. Investigation of the Possible Pharmacologically Active Forms of the Nicotinic Acetylcholine Receptor Agonist Anabaseine. *Mar Drugs*. 2019;17(11):614. Published 2019 Oct 29.

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