



LKT Laboratories, Inc.

Anabasine Hydrochloride

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Product Information

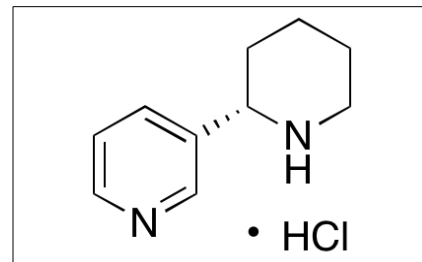
Product ID A5202
CAS No. 15251-47-5
Chemical Name 3-(2-Piperidinyl)pyridine hydrochloride

Synonym

Formula C₁₀H₁₄N₂ · HCl
Formula Wt. 198.73
Melting Point
Purity ≥98%
Solubility Soluble in water or alcohol.

Store Temp 4° C
Ship Temp Ambient

Description Anabasine is an alkaloid originally found in species of *Nicotiana*; it is a structural isomer of nicotine. Anabasine inhibits aromatase and nicotinic acetylcholine receptors (nAChRs) and may produce a depolarizing neuromuscular junction (NMJ) block. Anabasine can also be used as a clinical biomarker for tobacco smoke exposure. Additionally, anabasine is teratogenic and may be used as an insecticide.



Bulk quantities available upon request

Product ID	Size	
A5202	25 mg	
A5202	100 mg	\$132.40

References Green BT, Lee ST, Welch KD, et al. Plant alkaloids that cause developmental defects through the disruption of cholinergic neurotransmission. *Birth Defects Res C Embryo Today*. 2013 Dec;99(4):235-46. PMID: 24339035.

Shimomura M, Yokota M, Ihara M, et al. Role in the selectivity of neonicotinoids of insect-specific basic residues in loop D of the nicotinic acetylcholine receptor agonist binding site. *Mol Pharmacol*. 2006 Oct;70(4):1255-63. PMID: 16868180.

Jacob P 3rd, Yu L, Shulgin AT, Benowitz NL. Minor tobacco alkaloids as biomarkers for tobacco use: comparison of users of cigarettes, smokeless tobacco, cigars, and pipes. *Am J Public Health*. 1999 May;89(5):731-6. PMID: 10224986.

Barbieri RL, Gochberg J, Ryan KJ. Nicotine, cotinine, and anabasine inhibit aromatase in human trophoblast in vitro. *J Clin Invest*. 1986 Jun;77(6):1727-33. PMID: 3711333.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.