



# 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**

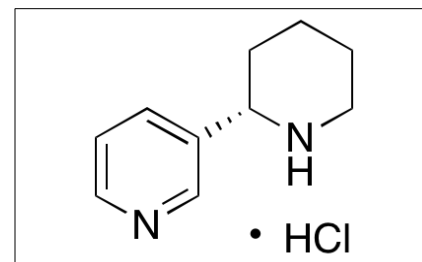
**Formula**  $C_{10}H_{14}N_2 \cdot HCl$

**Formula Wt.** 198.73

**Melting Point**

**Purity**  $\geq 98\%$

**Solubility** Soluble in water or alcohol.



### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
A5202	25 mg	\$51.10
A5202	100 mg	\$132.40

**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.

**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.