



LKT Laboratories, Inc.

Amantadine Hydrochloride

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Product Information

Product ID A4802

CAS No. 665-66-7

Chemical Name Tricyclo[3.3.1.1^{3,7}]decan-1-amine hydrochloride

Synonym Amazolon, Mantadan, Mantadine, Symmetrel, Vitrofral

Formula C₁₀H₁₇N • HCl

Formula Wt. 187.71

Melting Point > 360°C (dec.)

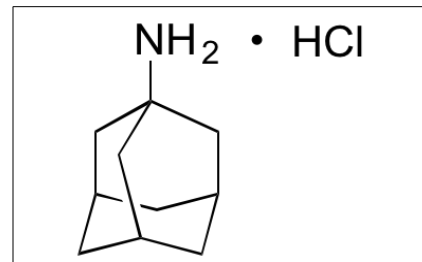
Purity ≥98%

Solubility Soluble in water (400 mg/mL) or alcohol (196 mg/mL). Practically insoluble in ether.

Store Temp Ambient

Ship Temp Ambient

Description Amantadine exhibits neuroprotective and antiviral activity. Amantadine directly inhibits the viral M2 proton channel. This compound is also used to treat Parkinson's disease; it inhibits monoamine oxidase A (MAO-A), α7 nicotinic acetylcholine receptors (nAChRs), norepinephrine transporters (NET), and NMDA receptors (through acceleration of channel closure).



Bulk quantities available upon request

Product ID	Size
A4802	5 g
A4802	25 g
A4802	100 g

References Sommerauer C, Rebernik P, Reither H, et al. The noradrenaline transporter as site of action for the anti-Parkinson drug amantadine. *Neuropharmacology*. 2012 Mar;62(4):1708-16. PMID: 22155208.

Jing X, Ma C, Ohigashi Y, et al. Functional studies indicate amantadine binds to the pore of the influenza A virus M2 proton-selective ion channel. *Proc Natl Acad Sci U S A*. 2008 Aug 5;105(31):10967-72. PMID: 18669647.

Blanpied TA, Clarke RJ, Johnson JW. Amantadine inhibits NMDA receptors by accelerating channel closure during channel block. *J Neurosci*. 2005 Mar 30;25(13):3312-22. PMID: 15800186.

Pearce J. Mechanism of action of amantadine. *Br Med J*. 1971 Aug 26;3(5773):529. PMID: 4327681.

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