



LKT Laboratories, Inc.

Galantamine Hydrobromide

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Product Information

Product ID G0246

CAS No. 1953-04-4

Chemical Name (4a*S*,6*R*,8*aS*)-4*a*,5,9,10,11,12-Hexahydro-3-methoxy- 11-methyl-6*H*-benzofuronyl

Synonym Nivalin, Galanthamine Hydrobromide

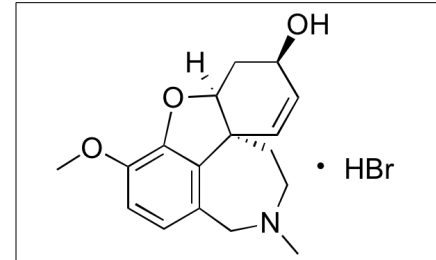
Formula C₁₇H₂₁NO₃ · HBr

Formula Wt. 368.27

Melting Point 246-247° C (dec.)

Purity ≥98%

Solubility Soluble in water.



Bulk quantities available upon request

Product ID	Size
G0246	5 mg
G0246	25 mg
G0246	100 mg

Store Temp -20° C

Ship Temp Ambient

Description Galantamine is an alkaloid originally found in species of *Galanthus*, *Narcissus*, *Leucojum*, and *Lycoris*; it exhibits neuroprotective and cognition enhancing activities. Galantamine inhibits acetylcholinesterase (AChE) and acts as an allosteric agonist on nicotinic acetylcholine receptors (nAChRs) and muscarinic acetylcholine receptors (mAChRs); it is somewhat selective for α7 nAChRs. Galantamine is clinically used to improve cognitive deficits in subjects with Alzheimer's disease. Galantamine is neuroprotective and promotes neurogenesis in an IGF-2-dependent manner. Galantamine may also inhibit P2X7 receptors, increasing Bcl-2 expression and inhibiting apoptosis.

References Kita Y, Ago Y, Higashino K, et al. Galantamine promotes adult hippocampal neurogenesis via M1 muscarinic and α7 nicotinic receptors in mice. *Int J Neuropsychopharmacol.* 2014 Dec;17(12):1957-68. PMID: 24818616.

Tsvetkova D, Obreshkova D, Zheleva-Dimitrova D, et al. Antioxidant activity of galantamine and some of its derivatives. *Curr Med Chem.* 2013;20(36):4595-608. PMID: 23834167.

Ago Y, Koda K, Takuma K, et al. Pharmacological aspects of the acetylcholinesterase inhibitor galantamine. *J Pharmacol Sci.* 2011;116(1):6-17. PMID: 21498956.

Woodruff-Pak DS, Vogel RW 3rd, Wenk GL. Galantamine: effect on nicotinic receptor binding, acetylcholinesterase inhibition, and learning. *Proc Natl Acad Sci U S A.* 2001 Feb 13;98(4):2089-94. PMID: 11172080.

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