



# LKT Laboratories, Inc.

## Galantamine Hydrobromide

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)  
Web: [lktlabs.com](http://lktlabs.com)

### Product Information

**Product ID** G0246  
**CAS No.** 1953-04-4  
**Chemical Name** (4aS,6R,8aS)-4a,5,9,10,11,12-Hexahydro-3-methoxy- 11-methyl-6H-benzofuronyl

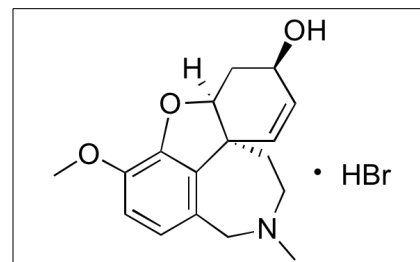
**Synonym** Nivalin, Galanthamine Hydrobromide

**Formula**  $C_{17}H_{21}NO_3 \cdot HBr$   
**Formula Wt.** 368.27  
**Melting Point** 246-247°C (dec.)  
**Purity** ≥98%  
**Solubility** Soluble in water.

**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  $\alpha 7$  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.



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
G0246	5 mg	\$61.10
G0246	25 mg	\$122.70
G0246	100 mg	\$204.30

**References** Kita Y, Ago Y, Higashino K, et al. Galantamine promotes adult hippocampal neurogenesis via M1 muscarinic and  $\alpha 7$  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.