Galantamine Hydrobromide

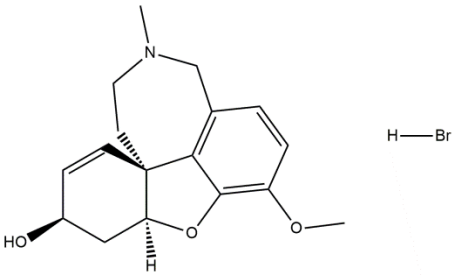
12/20

ALTERNATE NAMES: Galanthamine hydrobromide; Reminyl; (1S,12S,14R)-9-methoxy-4-methyl-11-oxa-4-azatetracyclo[8.6.1.$0^{1,12}$.$0^{6,17}$]heptadeca-6(17),7,9,15-tetraen-14-ol;hydrobromide; (4aS,6R,8aS)-4a,5,9,10,11,12-Hexahydro-3-methoxy-11-methyl-6H-benzofuro[3a,3,2-ef][2]benzazepin-6-ol Hydrobromide

CATALOG #:

B3094-10	10 mg
B3094-50	50 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{17}H_{22}BrNO_3$

MOLECULAR WEIGHT: 368.27

CAS NUMBER: 1953-04-4

APPEARANCE: White crystalline solid

PURITY: ≥ 98%

SOLUBILITY: ~7 mg/ml in water
~7 mg/ml in DMSO (may need gentle warming)

DESCRIPTION: Galantamine is an alkaloid originally isolated from the bulbs and flowers of various *Galanthus* species. It inhibits acetylcholinesterase with an IC_{50} of 800 nM. It is a potent allosteric potentiating ligand of human $\alpha_3\beta_4$, $\alpha_4\beta_2$ and $\alpha_6\beta_4$ nicotinic receptors (nAChRs). It is used for the treatment of vascular dementia in Alzheimer's disease.

STORAGE TEMPERATURE: -20 ºC. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Samochocki, M., Höffle, A., Fehrenbacher, A., et al. Galantamine is an allosterically potentiating ligand of neuronal nicotinic but not of muscarinic acetylcholine receptors. J Pharmacol Exp Ther 305(3):1024-36 (2003).
2. Luo, W., Yu, Q.S., Kulkarni, S.S., et al. Inhibition of human acetyl- and butyrylcholinesterase by novel carbamates of (−)- and (+)-tetrahydrofurobenzofuran and methanobenzodioxepine. J. Med. Chem. 49(7), 2174-2185 (2006).

RELATED PRODUCTS:

Donepezil Hydrochloride (Cat. No. B3092)
Rivastigmine tartrate (Cat. No. B3093)
Cryptotanshinone (Cat. No. 2429)
Acetylcholinesterase Inhibitor Screening Kit (Colorimetric) (Cat. No. K197)
Curvularin (Cat. No. 9694)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***