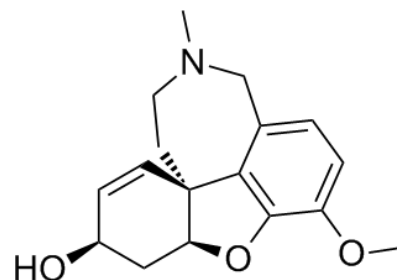


Product Name : Galanthamine
Cat. No. : PC-45968
CAS No. : 357-70-0
Molecular Formula : C₁₇H₂₁NO₃
Molecular Weight : 287.3535
Target : nAChR
Solubility : DMSO: ≥ 59 mg/mL



Biological Activity

A potent allosteric potentiating ligand of human nAChRs $\alpha 4\beta 2$, $\alpha 3\beta 4$, and $\alpha 6\beta 4$; potentiates agonist responses of the four nAChR subtypes at 0.1-1 μ M, acts as an nAChR inhibitor at >10 μ M; also shows affinity for chicken/mouse nAChRs $\alpha 7/5$ -HT3 in certain areas of the brain; also works as a weak competitive and reversible cholinesterase inhibitor with IC₅₀ of 2.8-3.2 μ M; decreases genotoxicity and cell death induced by β -amyloid peptide in SH-SY5Y cell line.

Alzheimer's Disease
Approved

References

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Woodruff-Pak DS, et al. Proc Natl Acad Sci U S A. 2001 Feb 13;98(4):2089-94.
Bloniecki V, et al. J Alzheimers Dis. 2017;57(2):387-393.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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