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# Produktinformation

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- Laborgeräte & Service

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## Lieferung & Zahlungsart

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## Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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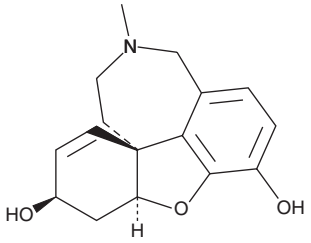
# PRODUCT INFORMATION

## O-desmethyl Galantamine

*Item No. 35080*

**CAS Registry No.:** 60755-80-8
**Formal Name:** (4aS,6R,8aS)-4a,5,9,10,11,12-hexahydro-11-methyl-6H-benzofuro[3a,3,2-ef][2]benzazepine-3,6-diol
**Synonym:** Sanguinine
**MF:** $C_{16}H_{19}NO_3$
**FW:** 273.3
**Purity:** ≥90%
**Supplied as:** A solid
**Storage:** -20°C
**Stability:** ≥4 years
**Item Origin:** Synthetic




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

O-desmethyl Galantamine is supplied as a solid. A stock solution may be made by dissolving the O-desmethyl galantamine in the solvent of choice, which should be purged with an inert gas. O-desmethyl Galantamine is soluble in DMSO.

### Description

O-desmethyl Galantamine is an active metabolite of the alkaloid galantamine (Item No. 17559).[1] It is formed from galantamine by the cytochrome P450 (CYP) isoform CYP2D6.[2] O-desmethyl Galantamine inhibits erythrocyte and brain acetylcholinesterase (AChE) and plasma butyrylcholinesterase (BChE; $IC_{50}$s = 0.12, 0.5, and 24 µM, respectively). It also prevents decreases in the viability of SH-SY5Y cells induced by hydrogen peroxide, amyloid-β (25-35) (Item No. 24155), or cobalt chloride when used at concentrations ranging from 6.25 to 100 µM.[3]

### References


1. Maláková, J., Nobilis, M., Svoboda, Z., *et al.* High-performance liquid chromatographic method with UV photodiode-array, fluorescence and mass spectrometric detection for simultaneous determination of galantamine and its phase I metabolites in biological samples. *J. Chromatogr. B. Analyt. Technol. Biomed. Life Sci.* **853(1-2)**, 265-274 (2007).
2. Bachus, R., Bickel, U., Thomsen, T., *et al.* The O-demethylation of the antidementia drug galanthamine is catalysed by cytochrome P450 2D6. *Pharmacogenetics* **9(6)**, 661-668 (1999).
3. Zhu, Y.-Y., Li, X., Yu, H.-Y., *et al.* Alkaloids from the bulbs of *Lycoris longituba* and their neuroprotective and acetylcholinesterase inhibitory activities. *Arch. Pharm. Res.* **38(5)**, 604-613 (2015).





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