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Galantamine Hydrobromide

National Cancer Institute

Source

National Cancer Institute. *Galantamine Hydrobromide*. NCI Thesaurus. Code C47546.

The hydrobromide salt form of galantamine, a tertiary alkaloid obtained synthetically or naturally from the bulbs and flowers of *Narcissus* and several other genera of the Amaryllidaceae family with anticholinesterase and neurocognitive-enhancing activities. Galantamine competitively and reversibly inhibits acetylcholinesterase, thereby increasing the concentration and enhancing the action of acetylcholine (ACh). In addition, galantamine is a ligand for nicotinic acetylcholine receptors, which may increase the presynaptic release of ACh and activate postsynaptic receptors. This agent may improve neurocognitive function in mild and moderate Alzheimer's disease and may reduce abstinence-induced cognitive symptoms that promote smoking relapse.