

[Open Peer Review on Qeios](#)

Memantine Hydrochloride

National Cancer Institute

Source

National Cancer Institute. *Memantine Hydrochloride*. NCI Thesaurus. Code C47601.

The hydrochloride salt of memantine, a low-affinity, voltage-dependent, noncompetitive N-methyl-D-aspartate (NMDA) receptor antagonist. Memantine binds to and inhibits cation channels of glutamatergic NMDA receptors located in the central nervous system (CNS), preventing the prolonged influx of calcium ions and the associated neuronal excitotoxicity, and thereby potentially enhancing cognitive function. Memantine is also a 5-hydroxytryptamine type 3 (5HT₃) receptor and nicotinic receptor antagonist.