

Open Peer Review on Qeios

Dexmedetomidine Hydrochloride

National Cancer Institute

Source

National Cancer Institute. <u>Dexmedetomidine Hydrochloride</u>. NCI Thesaurus. Code

The hydrochloride salt form of dexmedetomidine, an imidazole derivate and active disomer of medetomidine with analgesic, anxiolytic and sedative activities.

Dexmedetomidine selectively binds to and activates presynaptic alpha-2 adrenoceptors located in the brain, thereby inhibiting the release of norepinephrine from synaptic vesicles. This leads to an inhibition of postsynaptic activation of adrenoceptors, which inhibits sympathetic activity, thereby leading to analgesia, sedation and anxiolysis.

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