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# Oxidopamine

National Cancer Institute

## Source

National Cancer Institute. *Oxidopamine*. NCI Thesaurus. Code C1316.

An antagonist of the neurotransmitter dopamine with potential antineoplastic activity. 6-Hydroxydopamine (6-HOD) can be taken up by selective adrenergic terminals, thereby causing acute degeneration of adrenergic terminals that leads to depletion of norepinephrine, and of dopamine in the dopamine-sensitive sites. This agent is auto-oxidated at physiological pH that leads to the formation of reactive free radicals, thereby leading to cytotoxicity in neural cells. 6-Hydroxydopamine is often used to induce CNS and sympathetic neural lesions that model aging and various nervous disorders in animal systems.