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# Lidocaine Hydrochloride Ophthalmic Gel

National Cancer Institute

## Source

National Cancer Institute. *Lidocaine Hydrochloride Ophthalmic Gel*. NCI Thesaurus. Code C132682.

An ophthalmic gel formulation containing the synthetic amide-type anesthetic lidocaine, with potential analgesic activity. Upon ophthalmic application, the active ingredient lidocaine binds to and blocks voltage-gated sodium channels in neuronal cell membranes. Lidocaine-mediated stabilization of neuronal membranes inhibits the initiation and conduction of nerve impulses, which numbs the nerves, prevents the trigemino-cardiac reflex and produces a reversible local anesthesia.