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Oxiconazole Nitrate

National Cancer Institute

Source

National Cancer Institute. *Oxiconazole Nitrate*. NCI Thesaurus. Code C47644.

The nitrate salt form of oxiconazole, a broad spectrum imidazole derivative with antifungal activity. Although the exact mechanism of action has yet to be fully elucidated, oxiconazole, like other azole antifungals, most likely inhibits the cytochrome P450-dependent demethylation of lanosterol. This prevents the synthesis of ergosterol which is a crucial component of fungal cell membrane. By disrupting fungal cell membrane synthesis and integrity, oxiconazole alters fungal cell membrane permeability, promotes loss of essential intracellular components and eventually inhibits fungal cell growth.