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Econazole

National Cancer Institute

Source

National Cancer Institute. *Econazole*. NCI Thesaurus. Code C61740.

An imidazole with antifungal property. Econazole compromises the integrity of fungal cell wall through inhibiting 14- α demethylase, which catalyzes conversion of lanosterol to ergosterol, an essential component of the fungal cell wall. As a result, this agent increases cellular permeability thereby resulting in leakage of cellular contents. Furthermore, econazole has also been implicated to inhibit endogenous respiration, interact with membrane phospholipids, inhibit purine uptake, and impair triglyceride and/or phospholipid biosynthesis.