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Ciclopirox

National Cancer Institute

Source

National Cancer Institute. *Ciclopirox*. NCI Thesaurus. Code C61677.

A synthetic, broad-spectrum antifungal agent with additional antibacterial and anti-inflammatory activities. Ciclopirox exerts its action by binding to and chelating trivalent cations, such as Fe³⁺ and Al³⁺, thereby inhibiting the availability of essential co-factors for enzymes. This may lead to a loss of activity of enzymes that are essential for cellular metabolism, organization of cell wall structure and other crucial cell functions. In addition, ciclopirox exerts its anti-inflammatory activity by inhibiting 5-lipoxygenase and cyclooxygenase (COX).