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Ciclopirox Olamine

National Cancer Institute

Source

National Cancer Institute. *Ciclopirox Olamine*. NCI Thesaurus. Code C65327.

The olamine salt form of ciclopirox, 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 Fe^{3+} and Al^{3+} , 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).