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# Ciclopirox Olamine Oral

National Cancer Institute

## Source

National Cancer Institute. *Ciclopirox Olamine Oral*. NCI Thesaurus. Code C91375.

An aqueous suspension of the olamine salt form of ciclopirox, a synthetic, broad-spectrum hydroxypyridone antifungal agent with additional antibacterial and anti-inflammatory activities. Although the exact mechanism of action of ciclopirox has yet to be fully elucidated, this agent is able to chelate trivalent cations, such as  $\text{Fe}^{3+}$ , 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).