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Tinidazole

National Cancer Institute

Source

National Cancer Institute. *Tinidazole*. NCI Thesaurus. Code C890.

A 5-nitroimidazole derivative with antiprotozoal property. Although the mechanism of action has not been fully elucidated, it has been suggested that tinidazole is metabolized and yields nitrite anions and metronidazole. Metronidazole's nitro group in turn is reduced via the parasite ferredoxin, thereby generating a series of free nitro radicals including nitro anions. Toxicity is achieved via depletion of sulfhydryl groups and DNA strand breaks with multiple hits having an additive effect and ultimately leading to cell death.