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Nitazoxanide

National Cancer Institute

Source

National Cancer Institute. *Nitazoxanide*. NCI Thesaurus. Code C47637.

A synthetic benzamide with antiprotozoal activity. Nitazoxanide exerts its antiprotozoal activity by interfering with the pyruvate ferredoxin/flavodoxin oxidoreductase dependent electron transfer reaction, which is essential to anaerobic energy metabolism. PFOR enzyme reduces nitazoxanide, thereby impairing the energy metabolism. However, interference with the PFOR enzyme-dependent electron transfer reaction may not be the only pathway by which nitazoxanide exhibits antiprotozoal activity. Nitazoxanide is active against *Giardia lamblia* and *Cryptosporidium parvum*.