Open Peer Review on Qeios

Nifurtimox

National Cancer Institute

Source

National Cancer Institute. <u>Nifurtimox</u>. NCI Thesaurus. Code C71734.

A nitrofuran derivative with antiprotozoal and potential antineoplastic activities. Nifurtimox is reduced by cytosol enzymes or flavin-containing microsomal enzymes to a highly reactive nitro anion free radical; autooxidation of the nitro anion free radical generates cytotoxic superoxide anion (02-). In addition, nifurtimox-derived nitro anion free radicals may alkylate macromolecules such as nucleic acids and proteins, resulting in the disruption of their structure and function.