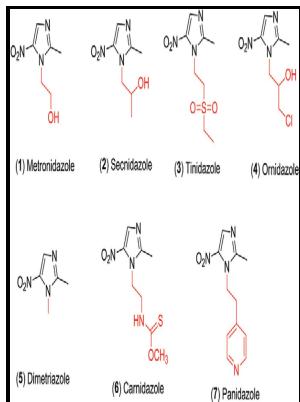


Studies on the cytotoxic action of nitroimidazole drugs.

NELP - Studies on the action of nitroimidazole drugs: The products of nitroimidazole reduction



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Nitroimidazole drugs

However, these drugs show some neurotoxic effects which prevent their use at doses sufficient to give optimal sensitization Dische et al. Rajendran L, Knolker HJ, Simons K. The results show that sulphimidazole is only slightly toxic in vitro for Vero cells, either alone or in association with trimethoprim, and that the combination of the two functional groups in a single molecule not only maintains its structure—activity relationship intact but also broadens its antibacterial spectrum.

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Mutagenicity of metronidazole: structure-activity relationships. Starting from the network, we discovered 133 novel drug-cancer associations among 52 drugs and 16 cancer types by applying the common target-based approach. The sulphimidazole precursors V 1 and V 2 are so cytotoxic for Vero cells as to exclude systemic application.

Nitroimidazole

The most interesting compound seems to be the complex with chloromethyl groups at N1 of pyrazole rings, which exhibited the highest ability to form bifunctional adducts with DNA in vitro.

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Among the 27 targets in the cytoplasm, 23 were enzymes and four were others.

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