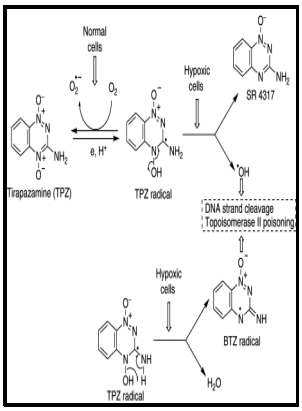
One-electron versus two-electron bioreductive cytotoxic mechanisms for hypoxic selective anticancer drugs

- - Targeting hypoxia in cancer therapy



Description: -
-One-electron versus two-electron bioreductive cytotoxic mechanisms for hypoxic selective anticancer drugs
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Notes: Advisor: OBrien, P.J.
This edition was published in 1992

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Biological approach of anticancer activity of new benzimidazole derivatives

In addition, it is hoped that another clinical benefit will be a reduced necessity for repeated treatment that may entail a poor response rate with an increased toxicity to the patient.

Targeting hypoxia in cancer therapy

You can learn about what data of yours we retain, how it is processed, who it is shared with and your right to have your data deleted by reading our. Triple disulfide bonds improved the redox responsive sensitivity, and GSH could trigger the DOX release to inhibit tumor cell proliferation. Nonpharmacological methods could exacerbate tumor hypoxia and therefore increase the in vitro and in vivo TH-302 cytotoxicity in pancreatic tumors.

Targeting hypoxia in cancer therapy

The metabolism of hypoxanthine to xanthine by xanthine oxidase is oxygen dependent.

The effect of one

For instance, indolequinones, naphthoquinones, and benzoquinones could release antitumor agents by bioreductive- or radiochemical-mediated cleavage at the 3-position of the quinone ring. Br J Cancer 1996;74 Suppl 27 :S204-8.

Targeting hypoxia in cancer therapy

Regulation of proliferation-survival decisions during tumor cell hypoxia.

Radical properties governing the hypoxia

Hypoxia: importance in tumor biology, noninvasive measurement by imaging, and value of its measurement in the management of cancer therapy.

Hypoxia

Polymeric micelles with ionic cores containing biodegradable cross-links for delivery of chemotherapeutic agents. Moreover, several novel derivatives of phenazine 5,10-dioxides have been synthesized to investigate the inhibition rate between DNA and topoisomerase II, showing cytotoxicity in V79 cells in both hypoxic and normoxic environments. A general mechanism for microsomal activation of quinone anticancer agents to free radicals.

Bioreductive therapies: an overview of drugs and their mechanisms of action

Nanocarriers based on disulfide bonds Reductive chemicals such as GSH have a significant role under redox conditions during tumor therapy, and dithiothreitol DTT is frequently used in vitro to replicate the redox environment.

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