Dexrazoxane Hydrochloride

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Brand name: Totect®

IUPAC: 4-[(2S)-2-(3,5-dioxopiperazin-1-yl)propyl]piperazine-2,6-dione

FDA approval: Yes Manufacturer Link

Usage:

Dexrazoxane Hydrochloride (Totect®) is used to treat tissue damage due to extravasation of intravenous anthracycline chemotherapy.1

1Totect Prescribing Information. http://totect.com/pdf/prescribing_information.pdf

Mechanism:

The the full mechanism of dexrazoxane activity is unknown, there is some evidence that it inhibitstopoisomerase II, an enzyme involved in DNA replication and transcription of RNA .1

The diagram below shows the 3D molecular structure of Dexrazoxane, the parent compound of Dexrazoxane Hydrochloride.



1Totect Prescribing Information. http://totect.com/pdf/prescribing_information.pdf

Side effects:

Side Effects include: Nausea, Vomiting, Fever, Infection1

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Contraindications:

Patients on dexrazoxane treatment can develop myelosuppression--decreased levels of platelets and red and white blood cells--and therefore should be closely monitored. Women who are nursing, pregnant, or plan to become pregnant should be warned that dexrazoxane poses a potential danger to the fetus or infant.1

• 1Totect Prescribing Information. http://totect.com/pdf/prescribing_information.pdf