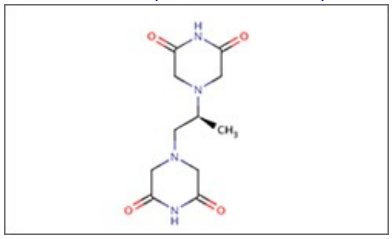
Dexrazoxane Hydrochloride

Printed from https://www.cancerquest.org/zh-hans/geihuanzhe/yaowuxinxi/dexrazoxane-hydrochloride on 11/08/2026



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

1 Totect 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 inhibits topoisomerase 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.

Stick Line Sphere Rotate

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

Side effects:

Side Effects include: Nausea, Vomiting, Fever, Infection1

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

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

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