

Arsenic trioxide

Printed from <https://www.cancerquest.org/patients/drug-reference/arsenic-trioxide> on 03/28/2024



Brand name: Trisenox®

IUPAC: 2,4,5-trioxa-1,3-diarsabicyclo[1.1.1]pentane

FDA approval: Yes

[Manufacturer Link](#)

Usage:

Arsenic trioxide is highly distributed throughout the liver, heart, kidneys and lungs. The treatment is mostly used in treatment of leukemia and is only administered intravenously.¹

- ¹Chu, E., & DeVita, V. T. (2015). Physicians' cancerchemotherapy drug manual 2015. Burlington, MA: Jones & Bartlett Learning.

Mechanism:

The mechanism of action of the drug is not fully understood, but caspase (programmed enzymes) found in arsenic trioxide induce apoptosis (cell death), which inhibits the process of angiogenesis and related cancerous cell production.¹

- ¹Chu, E., & DeVita, V. T. (2015). Physicians' cancerchemotherapy drug manual 2015. Burlington, MA: Jones & Bartlett Learning.

Side effects:

The chief side effect seen in arsenic trioxide is fatigue.¹ Other common side effects include headache, diarrhea, dizziness, abdominal pain, nausea, vomiting, fever, shortness of breath, swelling. Notify your doctor if you are pregnant, planning to become pregnant, or breastfeeding before taking arsenic trioxide.

- ¹Chu, E., & DeVita, V. T. (2015). Physicians' cancerchemotherapy drug manual 2015. Burlington, MA: Jones & Bartlett Learning.