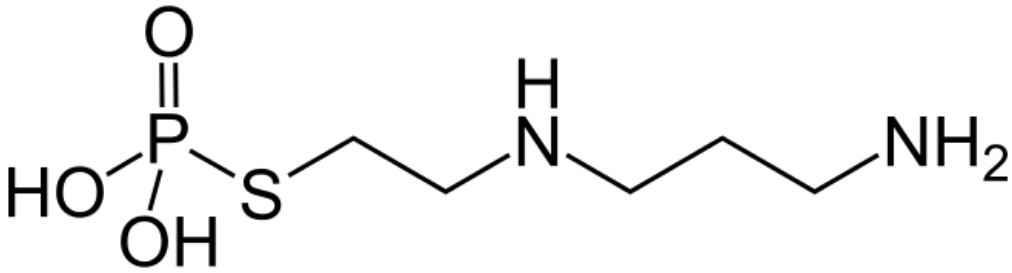
Amifostine

Printed from https://www.cancerquest.org/patients/drug-reference/amifostine on 11/14/2026



Brand name: Ethyol
IUPAC: 2-[(3-aminopropyl)amino]ethanethiol dihydrogen phosphate (ester)
FDA approval: Yes
Enlace del fabricante
Usage:

Amifostine is injected intravenously in the hospital just prior to the administration of radiation treatment or chemotherapy. Amifostine is used in a wide variety of cancers in order to reduce nausea during chemotherapy treatments.

Mechanism:

Amifostine is a cytoprotectant, which are used as additional medications to protect against the harms of main treatment.1 Amifostine is used in conjunction with chemotherapy agents (Ex: Cisplatin, Cyclophosphamide and Paclitaxel) to reduce their nephrotoxic and neurotoxic effects that cause fever and infection.2

The molecular structure below shows the 3D conformer Amifostine.

Stick Sphere Rotate

1 Amifostine MedlinePlus https://medlineplus.gov/druginfo/meds/a696014.html
2 Magee Gullatte, M. (2014). Clinical Guide to Antineoplastic Therapy: A Chemotherapy Handbook (Third Edition). Oncology Nursing Society.

Side effects:

Amifostine has a variety of side effects, including: nausea, vomiting, extreme chills or warmth, fever, drowsiness.1

1 Amifostine MedlinePlus https://medlineplus.gov/druginfo/meds/a696014.html