

[Health Topics](#)
[Drugs & Supplements](#)
[Videos & Cool Tools](#)
[ESPAÑOL](#)

Mercaptopurine

(mer kap" toe pure' een)


[Why is this medication prescribed?](#)
[How should this medicine be used?](#)
[Other uses for this medicine](#)
[What special precautions should I follow?](#)
[What special dietary instructions should I follow?](#)
[What should I do if I forget a dose?](#)
[What side effects can this medication cause?](#)
[What should I know about storage and disposal of this medication?](#)
[In case of emergency/overdose](#)
[What other information should I know?](#)
[Brand names](#)
[Other names](#)

Why is this medication prescribed?

Mercaptopurine is used alone or with other chemotherapy drugs to treat acute lymphocytic leukemia (ALL; also called acute lymphoblastic leukemia and acute lymphatic leukemia; a type of cancer that begins in the white blood cells). Mercaptopurine is in a class of medications called purine antagonists. It works by stopping the growth of cancer cells.

How should this medicine be used?

Mercaptopurine comes as a tablet and a suspension (liquid) to take by mouth. It is usually taken once a day. Take mercaptopurine at around the same time every day. Follow the directions on your prescription label carefully, and ask your doctor or pharmacist to explain any part you do not understand. Take mercaptopurine exactly as directed. Do not take more or less of it or take it more often than prescribed by your doctor.

If you are taking the suspension, shake the bottle very well for 30 seconds before each use to mix the medication evenly. It is important to use an oral syringe (measuring device) to accurately measure and take your dose of mercaptopurine. If you do not find an oral syringe with your medication, ask your pharmacist to give you one. After you use the oral syringe to take your medication, remove the plunger from the rest of the measuring device, wash both parts with warm soapy water, and rinse under running tap water. Allow the parts to air dry before putting back together for the next use.

Continue to take mercaptopurine even if you feel well. Do not stop taking mercaptopurine without talking to your doctor

Other uses for this medicine [Return to top](#)

Mercaptopurine is also sometimes used to treat certain other types of cancer, Crohn's disease (a condition in which the body attacks the lining of the digestive tract causing pain, diarrhea, weight loss, and fever), and ulcerative colitis (condition in which sores develop in the intestines causing pain and diarrhea). Talk to your doctor about the possible risks of using this medication for your condition.

This medication may be prescribed for other uses; ask your doctor or pharmacist for more information.

What special precautions should I follow? [Return to top](#)

Before taking mercaptopurine,

- tell your doctor and pharmacist if you are allergic to mercaptopurine, any other medications, or any of the ingredients in mercaptopurine tablets or suspension. Ask your pharmacist for a list of the ingredients.
- tell your doctor and pharmacist what prescription and nonprescription medications, vitamins, nutritional supplements, and herbal products you are taking or plan to take. Be sure to mention any of the following: allopurinol (Lopurin, Zyloprim); aminosaliclates such as mesalamine (Apriso, Asacol, Canasa, Lialda, Delzicol, Pentasa, others), olsalazine (Dipentum), and sulfasalazine (Azulfidine); anticoagulants ('blood thinners') such as warfarin (Coumadin, Jantoven); doxorubicin (Doxil); and trimethoprim and sulfamethoxazole (Bactrim, Septra). Your doctor may need to change the doses of your medications or monitor you carefully for side effects.
- tell your doctor if you have already taken mercaptopurine or thioguanine to treat your cancer. Your doctor may tell you not to take mercaptopurine if either of these medications did not work well against your cancer in the past.
- tell your doctor if you have any type of infection and if you have or have ever had liver or kidney disease.
- tell your doctor if you are pregnant, plan to become pregnant, or are breast-feeding. You should use birth control to avoid pregnancy during your treatment with mercaptopurine. If you become pregnant while taking mercaptopurine, call your doctor immediately. Mercaptopurine may harm the

fetus.

- if you are having surgery, including dental surgery, tell the doctor or dentist that you are taking mercaptopurine.
- do not have any vaccinations without talking to your doctor.
- you should know that the risk that you will develop serious side effects of mercaptopurine may be higher if you have a genetic (inherited) risk factor. Your doctor may order tests before or during your treatment to see if you have this risk factor.

What special dietary instructions should I follow? [Return to top](#)

Unless your doctor tells you otherwise, continue your normal diet.

What should I do if I forget a dose? [Return to top](#)

Take the missed dose as soon as you remember it. However, if it is almost time for the next dose, skip the missed dose and continue your regular dosing schedule. Do not take a double dose to make up for a missed one.

What side effects can this medication cause? [Return to top](#)

Mercaptopurine may cause side effects. Tell your doctor if any of these symptoms are severe or do not go away:

- nausea
- vomiting
- darkening of the skin
- hair loss
- rash

Some side effects can be serious. If you experience any of these symptoms, call your doctor immediately:

- pale skin
- weakness
- shortness of breath
- sore throat, fever, chills, or other signs of infection
- swelling in the legs, ankles, or feet
- unusual bruising or bleeding
- yellowing of the skin or eyes
- loss of appetite
- diarrhea
- swelling of the stomach area
- pain in the upper right part of the stomach

Taking mercaptopurine may increase the risk that you will develop a new cancer. Some people who took mercaptopurine to treat Crohn's disease or ulcerative colitis developed hepatosplenic T cell lymphoma (HSTCL), a very serious form of cancer that often causes death within a short time. Tell your doctor if you experience any of the following symptoms: stomach pain; fever; unexplained weight loss; night sweats or easy bruising or bleeding. Talk to your doctor about the risks of taking this medication.

Mercaptopurine may cause other side effects. Call your doctor if you have any unusual problems while you are taking this medication.

If you experience a serious side effect, you or your doctor may send a report to the Food and Drug Administration's (FDA) MedWatch Adverse Event Reporting program online [at <http://www.fda.gov/Safety/MedWatch>] or by phone [1-800-332-1088].

What should I know about storage and disposal of this medication? [Return to top](#)

Keep this medication in the container it came in, tightly closed, and out of reach of children. Store it at room temperature and away from excess heat and moisture (not in the bathroom). Mercaptopurine suspension can be kept at room temperature for up to 6 weeks after the bottle is opened for the first time. Then, throw away any suspension that is left over after 6 weeks and any medication that is outdated or no longer needed. Talk to your pharmacist about the proper disposal of your medication.

In case of emergency/overdose [Return to top](#)

In case of overdose, call your local poison control center at 1-800-222-1222. If the victim has collapsed or is not breathing, call local emergency services at 911.

Symptoms of overdose may include:

- loss of appetite
- nausea
- vomiting
- diarrhea
- pale skin
- weakness
- shortness of breath
- sore throat, fever, chills, and other signs of infection
- unusual bruising or bleeding

What other information should I know? [Return to top](#)

Keep all appointments with your doctor and the laboratory. Your doctor will order certain lab tests to check your body's response to mercaptopurine.

Do not let anyone else take your medication. Ask your pharmacist any questions you have about refilling your prescription.

It is important for you to keep a written list of all of the prescription and nonprescription (over-the-counter) medicines you are taking, as well as any products such as vitamins, minerals, or other dietary supplements. You should bring this list with you each time you visit a doctor or if you are admitted to a hospital. It is also important information to carry with you in case of emergencies.

Brand names [Return to top](#)

- Purinethol®
- Purixan®

Other names [Return to top](#)

- 6-MP

Last Revised - 08/15/2014

[Browse Drugs and Medicines](#)



[American Society of Health-System Pharmacists, Inc. Disclaimer](#)

AHFS® Consumer Medication Information. © Copyright, 2015. The American Society of Health-System Pharmacists, Inc., 7272 Wisconsin Avenue, Bethesda, Maryland. All Rights Reserved. Duplication for commercial use must be authorized by ASHP.

 [Mobile version](#)  [Get email updates](#)  [Subscribe to RSS](#)  [Follow us on Twitter](#)

[Disclaimers](#) [Copyright](#) [Privacy](#) [Accessibility](#) [Quality Guidelines](#) [Viewers & Players](#)

[U.S. National Library of Medicine](#) 8600 Rockville Pike, Bethesda, MD 20894 [U.S. Department of Health and Human Services](#) [National Institutes of Health](#)

Page last updated: 26 January 2015