Memorial Sloan Kettering Cancer Center

PATIENT & CAREGIVER EDUCATION

Mirdametinib

This information from UpToDate® Lexidrug™ explains what you need to know about this medication, including what it's used for, how to take it, its side effects, and when to call your healthcare provider.

Brand Names: US

Gomekli

What is this drug used for?

- It is used to treat neurofibromatosis type 1 (NF1).

What do I need to tell my doctor BEFORE I take this drug?

- If you are allergic to this drug; any part of this drug; or any other drugs, foods, or substances. Tell your doctor about the allergy and what signs you had.
- If you are breast-feeding. Do not breast-feed while you take this drug and for 1 week after your last dose.

This drug may interact with other drugs or health problems.

Tell your doctor and pharmacist about all of your drugs (prescription or OTC, natural products, vitamins) and health problems. You must check to make sure that it is safe for you to take this drug with all of your drugs and health problems. Do not start, stop, or change the dose of any drug without checking with your doctor.

What are some things I need to know or do while I take this drug?

- Tell all of your health care providers that you take this drug. This includes your doctors, nurses, pharmacists, and dentists.
- Have your blood work and heart function checked as you have been told by your doctor. You will also need to have eye exams.
- High cholesterol and triglyceride levels have happened with this drug. If you have high cholesterol or triglycerides, talk with your doctor.
- This drug may cause fertility problems. This may affect being able to get pregnant. If you have questions, talk with the doctor.
- This drug may cause harm to an unborn baby. A pregnancy test will be done before you start this drug to show that you are NOT pregnant.
- If you may become pregnant, use birth control while taking this drug and for 6 weeks after your last dose. If you get pregnant, call your doctor right away.
- If your sex partner may become pregnant, use birth control while taking this drug and for 3 months after your last dose. If your partner gets pregnant, call the doctor right away.

What are some side effects that I need to call my doctor about right away?

WARNING/CAUTION: Even though it may be rare, some people may have very bad and sometimes deadly side effects when taking a drug. Tell your doctor or get medical help right away if you have any of the following signs or symptoms that may be related to a very bad side effect:

- Signs of an allergic reaction, like rash; hives; itching; red, swollen, blistered, or peeling skin with or without fever; wheezing; tightness in the chest or throat; trouble breathing, swallowing, or talking; unusual hoarseness; or swelling of the mouth, face, lips, tongue, or throat.
- Signs of low blood sugar like dizziness, headache, feeling sleepy, feeling weak, shaking, a fast heartbeat, confusion, hunger, or sweating.

- Signs of electrolyte problems like mood changes; confusion; muscle pain, cramps, or spasms; weakness; shakiness; change in balance; an abnormal heartbeat; seizures; loss of appetite; or severe upset stomach or throwing up.
- Fever, chills, or sore throat.
- Cough.
- A burning, numbness, or tingling feeling that is not normal.
- Chest pain.
- Heart failure (weak heart) has happened with this drug. If you have or have ever had heart failure, talk with your doctor. Get medical help right away if you have signs of heart failure like shortness of breath, a big weight gain, coughing up white or pink mucus, fast heartbeat, waking up at night more than normal, or swelling in the arms or legs while you take this drug.
- Eye problems have happened with this drug. Some types of eye problems may need to be treated right away to lower the chance of lasting eyesight loss. Call your doctor right away if you have any changes in eyesight, eye pain, or very bad eye irritation.
- It is common to get a rash with this drug. Sometimes skin reactions can be severe. Call your doctor right away if you have a rash over a large area, blisters, peeling, or a rash that bothers you or does not go away. Call your doctor right away if you have redness or irritation of the palms of hands or soles of feet.

What are some other side effects of this drug?

All drugs may cause side effects. However, many people have no side effects or only have minor side effects. Call your doctor or get medical help if any of these side effects or any other side effects bother you or do not go away:

- Pimples (acne).
- Eczema or other skin irritation.
- Mouth irritation or mouth sores.
- Back, joint, muscle, neck, arm, or leg pain.

- Bone pain.
- Feeling tired or weak.
- Change in nails.
- Signs of a common cold.
- Headache.
- Diarrhea, stomach pain, upset stomach, and throwing up are common with this drug. If these happen, call your doctor to talk about ways to lower these effects. Call your doctor right away if any of these effects bother you, do not go away, or get very bad.

These are not all of the side effects that may occur. If you have questions about side effects, call your doctor. Call your doctor for medical advice about side effects.

You may report side effects to your national health agency.

You may report side effects to the FDA at 1-800-332-1088. You may also report side effects at https://www.fda.gov/medwatch.

How is this drug best taken?

Use this drug as ordered by your doctor. Read all information given to you. Follow all instructions closely.

All products:

- Take with or without food.
- Keep taking this drug as you have been told by your doctor or other health care provider, even if you feel well.
- If you throw up after taking a dose, do not repeat the dose. Take your next dose at your normal time.

Capsules:

- Swallow whole. Do not chew, break, open, or crush.
- If you take more than 1 capsule per dose, be sure to swallow only 1 capsule at a time.
- If you have trouble swallowing, talk with your doctor.

Tablets for suspension:

- You may swallow whole or dissolve the tablets in water before taking. If you swallow whole and your dose is more than 1 tablet, take 1 tablet at a time. Do not chew, break, or crush.
- If you need to dissolve the tablets, add the tablets to a cup with 5 to 10 mL of water. Swirl gently for 2 to 4 minutes until the tablets are dissolved and the liquid is white and cloudy. The mixture needs to be taken within 30 minutes of mixing.
- After taking this drug, swirl another 5 to 10 mL of water in the cup and drink it.

What do I do if I miss a dose?

- Skip the missed dose and go back to your normal time.
- Do not take 2 doses at the same time or extra doses.

How do I store and/or throw out this drug?

- Store at room temperature protected from light. Store in a dry place. Do not store in a bathroom.
- Keep all drugs in a safe place. Keep all drugs out of the reach of children and pets.
- Throw away unused or expired drugs. Do not flush down a toilet or pour down a drain unless you are told to do so. Check with your pharmacist if you have questions about the best way to throw out drugs. There may be drug take-back programs in your area.

General drug facts

- If your symptoms or health problems do not get better or if they become worse, call your doctor.
- Do not share your drugs with others and do not take anyone else's drugs.
- Some drugs may have another patient information leaflet. If you have any questions about this drug, please talk with your doctor, nurse, pharmacist, or other health care provider.
- Some drugs may have another patient information leaflet. Check with your pharmacist. If you have any questions about this drug, please talk with your doctor, nurse, pharmacist, or other health care provider.
- If you think there has been an overdose, call your poison control center or get medical care right away. Be ready to tell or show what was taken, how much, and when it happened.

Consumer Information Use and Disclaimer

This generalized information is a limited summary of diagnosis, treatment, and/or medication information. It is not meant to be comprehensive and should be used as a tool to help the user understand and/or assess potential diagnostic and treatment options. It does NOT include all information about conditions, treatments, medications, side effects, or risks that may apply to a specific patient. It is not intended to be medical advice or a substitute for the medical advice, diagnosis, or treatment of a health care provider based on the health care provider's examination and assessment of a patient's specific and unique circumstances. Patients must speak with a health care provider for complete information about their health, medical questions, and treatment options, including any risks or benefits regarding use of medications. This information does not endorse any treatments or medications as safe, effective, or approved for treating a specific patient. UpToDate, Inc. and its affiliates disclaim any warranty or liability relating to this information or the use thereof. The use of this information is governed by the Terms of Use, available at https://www.wolterskluwer.com/en/know/clinical-effectiveness-terms.

Last Reviewed Date

2025-02-18

Copyright

© 2026 UpToDate, Inc. and its affiliates and/or licensors. All rights reserved.

If you have questions or concerns, contact your healthcare provider. A member of your care team will answer Monday through Friday from 9 a.m. to 5 p.m. Outside those hours, you can leave a message or talk with another MSK provider. There is always a doctor or nurse on call. If you're not sure how to reach your healthcare provider, call 212-639-2000.

For more resources, visit www.mskcc.org/pe to search our virtual library.

Mirdametinib - Last updated on February 21, 2025
All rights owned and reserved by Memorial Sloan Kettering Cancer Center