

THIS IS YOUR TIME TO REDUCE THE RISK OF SERIOUS INFECTIONS.

What is ACTIMMUNE® (Interferon gamma-1b) used for?

ACTIMMUNE® is part of a drug regimen used to treat Chronic Granulomatous Disease, or CGD. CGD is a genetic disorder, usually diagnosed in childhood, that affects some cells of the immune system and the body's ability to fight infections effectively. CGD is often treated (though not cured) with antibiotics, antifungals, and ACTIMMUNE®.

When should I not take ACTIMMUNE®?

Don't use ACTIMMUNE® if you are allergic to interferon-gamma, *E coli*-derived products, or any ingredients contained in the product.

Please see Important Safety Information on pages 6 and 7 and the ACTIMMUNE® Full Prescribing Information and Information for the Patient/Caregiver at ACTIMMUNE.com.



ACTIMMUNE®
(Interferon gamma-1b)

Learn more at ACTIMMUNE.com

What is CGD?

Chronic granulomatous disease (CGD) is a genetic disorder caused by a defect in the immune system that makes it difficult for the body to fight infection. Because of this, people with CGD are at a higher risk for getting serious, unusual, or repeat bacterial or fungal infections. Their bodies are also more prone to inflammation and the formation of clusters of white blood cells (masses) called granulomas, which give the disease its name.

How ACTIMMUNE® (Interferon gamma-1b) helps in the fight against infection

Now that your doctor has prescribed ACTIMMUNE®, it's important to understand how it works and how it may help you. ACTIMMUNE® is made up of a protein that's nearly identical to the one the body makes naturally as it fights infections, called interferon gamma. A clinical study proved that ACTIMMUNE® helped people with CGD by reducing the number of serious infections and days spent in the hospital.

Select Important Safety Information

What warnings should I know about ACTIMMUNE®?

At high doses, ACTIMMUNE® can cause (flu-like) symptoms, which may worsen some pre-existing heart conditions.

ACTIMMUNE® may cause decreased mental status, walking disturbances, and dizziness, particularly at very high doses. These symptoms are usually reversible within a few days upon dose reduction or discontinuation of therapy.

Bone marrow function may be suppressed with ACTIMMUNE®, and decreased production of cells important to the body may occur. This effect, which can be severe, is usually reversible when the drug is discontinued or the dose is reduced.

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Helping you fight serious infections

ACTIMMUNE® has been proven to result in a*:

64% decrease in serious infections[†]

67% lower risk of serious infection

67% decrease in days in the hospital

*Most patients in a clinical study also received prophylactic antibiotics.

[†]An infection is serious if you have to go to the hospital and get intravenous (IV) antibiotics.



Reducing serious infections

In a study of people with CGD that compared those who were given ACTIMMUNE® with those who were given placebo (inactive substance),[‡] the people who were given ACTIMMUNE® had considerably fewer serious infections, were admitted to the hospital less often, and when they were admitted, spent fewer days in the hospital than those who were not taking ACTIMMUNE®.

[‡]More than 85% of the people in both groups were also taking antibiotics.

Complete your CGD treatment plan

ANTIBIOTICS

Fight infections caused by bacteria

ACTIMMUNE®

Supports the body as it fights infection

ANTIFUNGALS

Fight infections caused by fungi, such as yeast or mold

Select Important Safety Information

What warnings should I know about ACTIMMUNE®?

Taking ACTIMMUNE® may cause reversible changes to your liver function, particularly in patients less than 1 year old. Your doctor should monitor your liver function every 3 months, and monthly in children under 1 year.

In rare cases, ACTIMMUNE® can cause severe allergic reactions and/or rash. If you experience a serious reaction to ACTIMMUNE®, discontinue it immediately and contact your doctor or seek medical help.

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Taking your medication

ACTIMMUNE® (Interferon gamma-1b) is taken 3 times a week through an injection given under the skin. It can be injected at home or wherever is convenient for you.

Choosing an injection site

When injecting ACTIMMUNE®, it's important to select a site that's padded by some fat underneath the skin, like the thighs, back of your upper arm, or abdomen. It's also recommended that you rotate the site with every injection so that the skin has time to heal.

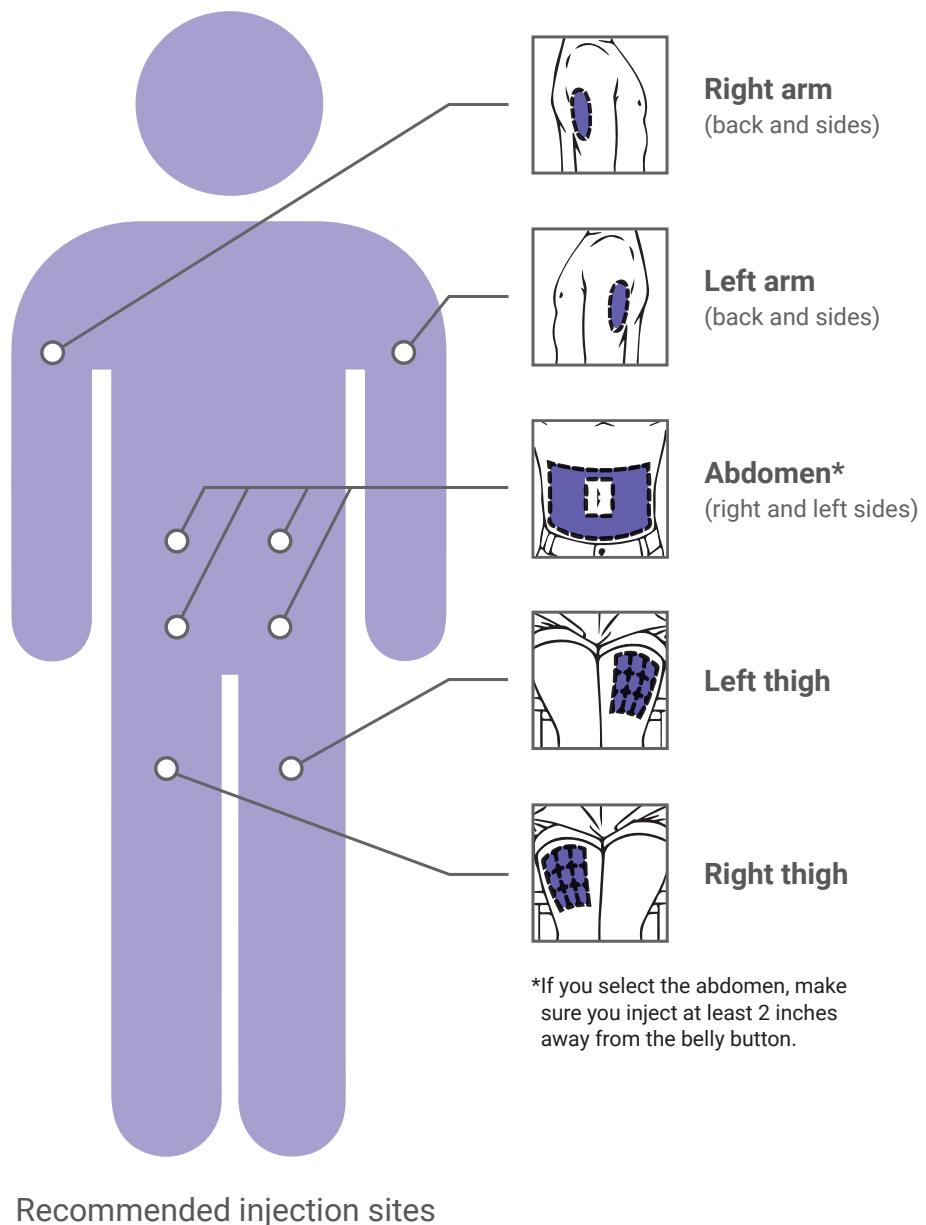
Select Important Safety Information

What should I tell my healthcare provider?

Be sure to tell your doctor about all the medications you are taking.

Tell your doctor if you:

- are pregnant or plan to become pregnant or plan to nurse
- have a cardiac condition such as irregular heartbeat, heart failure, or decreased blood flow to your heart
- have a history of seizures or other neurologic disorders
- have, or have had, reduced bone marrow function. Your doctor will monitor these cells with blood tests at the beginning of therapy and at 3-month intervals on ACTIMMUNE® therapy



*If you select the abdomen, make sure you inject at least 2 inches away from the belly button.

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ACTIMMUNE® (Interferon gamma-1b) is most effective when taken consistently as prescribed



It should be taken 3 times a week, at the same time each day.



It may be self-injected or given by a caregiver.



It should be refrigerated and not left at room temperature for longer than 12 hours.

IMPORTANT: Don't administer ACTIMMUNE® until a healthcare professional has given you detailed instructions and shown you how.

Possible side effects

The most common side effects with ACTIMMUNE® are flu-like symptoms, such as fever, headache, chills, muscle pain, or fatigue, which may decrease in severity as treatment continues. Bedtime administration of ACTIMMUNE® may help minimize some of these symptoms. Acetaminophen may be helpful in preventing fever and headache.

Free injection training

If you're hesitant to give yourself or the person you care for injections or just want to make sure you're injecting correctly, free injection training is offered through the CGD Nurse Educator Program available to ACTIMMUNE® patients.



Questions about your injections?

A CGD Nurse Educator would be happy to assist you. Please call **1 (877) 305-7704** during normal business hours to be connected to a nurse or to schedule an in-home injection training appointment.

Select Important Safety Information

What other medications might interact with ACTIMMUNE®?

Some drugs may interact with ACTIMMUNE® to potentially increase the risk of damage to your heart or nervous system, such as certain chemotherapy drugs. Tell your doctor about all other medications you are taking. Avoid taking ACTIMMUNE® at the same time as a vaccination.

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IMPORTANT SAFETY INFORMATION

What is ACTIMMUNE® (Interferon gamma-1b) used for?

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ACTIMMUNE is also used to slow the worsening of severe, malignant osteopetrosis (SMO). SMO is a genetic disorder that affects normal bone formation and is usually diagnosed in the first few months after birth.

When should I not take ACTIMMUNE?

Don't use ACTIMMUNE if you are allergic to interferon-gamma, *E coli*-derived products, or any ingredients contained in the product.

What warnings should I know about ACTIMMUNE?

At high doses, ACTIMMUNE can cause (flu-like) symptoms, which may worsen some pre-existing heart conditions.

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Bone marrow function may be suppressed with ACTIMMUNE, and decreased production of cells important to the body may occur. This effect, which can be severe, is usually reversible when the drug is discontinued or the dose is reduced.

Taking ACTIMMUNE may cause reversible changes to your liver function, particularly in patients less than 1 year old. Your doctor should monitor your liver function every 3 months, and monthly in children under 1 year.

In rare cases, ACTIMMUNE can cause severe allergic reactions and/or rash. If you experience a serious reaction to ACTIMMUNE, discontinue it immediately and contact your doctor or seek medical help.

What should I tell my healthcare provider?

Be sure to tell your doctor about all the medications you are taking.

Tell your doctor if you:

- are pregnant or plan to become pregnant or plan to nurse
- have a cardiac condition such as irregular heartbeat, heart failure, or decreased blood flow to your heart
- have a history of seizures or other neurologic disorders
- have, or have had, reduced bone marrow function. Your doctor will monitor these cells with blood tests at the beginning of therapy and at 3-month intervals on ACTIMMUNE therapy

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IMPORTANT SAFETY INFORMATION (continued)

What are the side effects of ACTIMMUNE?

The most common side effects with ACTIMMUNE are “flu-like” symptoms such as fever, headache, chills, muscle pain, or fatigue, which may decrease in severity as treatment continues. Bedtime administration of ACTIMMUNE may help reduce some of these symptoms. Acetaminophen may be helpful in preventing fever and headache.

What other medications might interact with ACTIMMUNE?

Some drugs may interact with ACTIMMUNE to potentially increase the risk of damage to your heart or nervous system, such as certain chemotherapy drugs. Tell your doctor about all other medications you are taking.

Avoid taking ACTIMMUNE at the same time as a vaccination.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch, or call 1-800-FDA-1088.

The risk information provided here is not comprehensive. To learn more, talk about ACTIMMUNE with your healthcare provider or pharmacist. The FDA-approved product labeling can be found at <http://www.ACTIMMUNE.com> or 1-866-479-6742.

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Horizon Patient Services offers ongoing support for people with CGD

Horizon Patient Services is dedicated to improving the lives of people living with CGD. The Horizon Patient Services program provides ongoing individualized support and education for you and your family.

Your CGD Nurse Educator leads your dedicated Horizon Patient Services team that is here to help you, from answering questions as you start taking ACTIMMUNE® (Interferon gamma-1b) and through every step along the way. Your CGD Nurse Educator is available in person or by email, text, or phone with information and guidance.

These comprehensive services are free of charge and built around 3 components: **coordinate, connect, and champion**.

Your Horizon Patient Services team will:



- Work with you and your doctor's office to simplify the process of getting started on your medicine
- Help address financial barriers by researching your insurance benefits, finding out what your insurance will cover, explaining your insurance options, and connecting you to financial assistance options
- Assist in connecting with your specialty pharmacy to schedule the shipment of your medicine so that you avoid running out of supply



- Connect you and your family to others living with CGD through live events, peer-mentor programs, and online resources
- Provide helpful tools and resources to manage the day-to-day challenges of living with CGD
- Introduce you and your family to CGD advocacy groups for more support and inform you of CGD events in your area



- Serve as your dedicated personal resource and the main point of contact for your ongoing ACTIMMUNE® logistical needs
- Provide CGD education and answer non-treatment-related questions
- Help you through changes along the way that may impact your treatment
- Respond to your questions and concerns, and connect you with the right resources to get answers

Visit ACTIMMUNE.com/support to explore all the resources and tools Horizon provides to the CGD community through the Horizon Patient Services program.



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