

Patient Information

Humalog[®] (HU-ma-log) insulin lispro injection, USP (rDNA origin)

Important:

Know your insulin. Do not change the type of insulin you use unless told to do so by your healthcare provider. Your insulin dose and the time you take your dose can change with different types of insulin.

Make sure you have the right type and strength of insulin prescribed for you.

Read the Patient Information that comes with Humalog before you start using it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your healthcare provider about your diabetes or treatment. Make sure that you know how to manage your diabetes. Ask your healthcare provider if you have questions about managing your diabetes.

What is Humalog?

Humalog is an injectable fast-acting man-made insulin. Humalog is used to control high blood sugar (glucose) in people with diabetes.

Humalog comes in:

- 10 mL vials (bottles) for use with a syringe or external insulin pump
- Prefilled pens
- 3 mL cartridges for use with a reusable pen or external insulin pump

Who should not take Humalog?

Do not take Humalog if:

- your blood sugar is too low (hypoglycemia). After treating your low blood sugar, follow your healthcare provider's instructions on the use of Humalog.
- you are allergic to anything in Humalog. See the end of this leaflet for a complete list of ingredients in Humalog.

Tell your healthcare provider:

- **about all your medical conditions.** Medical conditions can affect your insulin needs and your dose of Humalog.
- **if you are pregnant or breastfeeding.** You and your healthcare provider should talk about the best way to manage your diabetes while you are pregnant or breastfeeding. Humalog has not been studied in pregnant or nursing women.
- **about all the medicines you take, including prescription and non-prescription medicines, vitamins and herbal supplements.** Many medicines can affect your blood sugar levels and insulin needs. Your Humalog dose may need to change if you take other medicines.

Know the medicines you take. Keep a list of your medicines with you to show to all of your healthcare providers.

How should I use Humalog?

Humalog can be used with a syringe, prefilled pen, reusable pen or external insulin pump. Talk to your healthcare provider if you have any questions. Your healthcare provider will tell you the

right syringes to use with Humalog vials. Your healthcare provider should show you how to inject Humalog before you start using it.

- **Read the User Manual that comes with your Humalog prefilled pen and the manufacturer's instructions that comes with your external insulin pump. Use Humalog exactly as prescribed by your healthcare provider.**
- **If you have type 1 diabetes, you need to take a longer-acting insulin in addition to Humalog (except when using an external insulin pump).**
- **If you have type 2 diabetes, you may be taking diabetes pills and/or a longer-acting insulin in addition to Humalog.**
- **Humalog starts working faster than other insulins that contain regular human insulin.** Inject Humalog within fifteen minutes before eating or right after eating a meal.
- **Check your blood sugar levels as told by your healthcare provider.**
- Look at your Humalog before using. Humalog should be clear, have no color and look like water. If your Humalog is cloudy, thickened, even slightly colored, or has solid particles or clumps in it, do not use. Return it to your pharmacy for new Humalog.
- Humalog can be mixed with a longer-acting human insulin, but only if you are told to do so by your healthcare provider. If you are mixing two types of insulin, always draw Humalog into the syringe first. Talk with your healthcare provider about how to properly mix Humalog with a different insulin.
- Humalog can be used in an external insulin pump either by withdrawing Humalog from a vial or using a 3 mL Humalog cartridge that is inserted into the pump.
- Humalog was tested with MiniMed®¹ Models 506, 507, and 508 insulin pumps using MiniMed Polyfin®¹ infusion sets. Humalog was also tested with the Disetronic®² H-TRONplus®² V100 insulin pump (with plastic 3.15 mL insulin reservoir), using the Disetronic Rapid®² infusion set.
- A Humalog cartridge used in the D-TRON² or D-TRONplus² pump, may be used for up to 7 days. Humalog in the external insulin pump reservoir and the complete infusion set should be replaced and a new infusion site selected every 48 hours or less.
- Humalog in an external insulin pump should not be exposed to temperature above 98.6°F (37°C), such as in a sauna or hot tub, hot showers, direct sunlight, or radiant heaters.
- **Inject your dose of Humalog under the skin of your stomach area, upper arm, upper leg, or buttocks. Never inject Humalog into a muscle or vein.**
- **Change (rotate) your injection site with each dose.**
- **Your insulin needs may change because of:**
 - illness
 - stress
 - other medicines you take
 - changes in eating
 - physical activity changes

Follow your healthcare provider's instructions to make changes in your insulin dose.

- **Never dilute or mix Humalog with another insulin in the same prefilled pen, cartridge or external insulin pump.**
- **Always carry a quick source of sugar to treat low blood sugar, such as glucose tablets, hard candy, or juice.**

What are the possible side effects of Humalog?

Low Blood Sugar (Hypoglycemia). Symptoms of low blood sugar include:

- hunger
- dizziness
- feeling shaky or shakiness
- lightheadedness
- sweating

- irritability
- headache
- fast heartbeat
- confusion

Low blood sugar symptoms can happen suddenly. Symptoms of low blood sugar may be different for each person and may change from time to time. Severe low blood sugar can cause seizures and death. Low blood sugar may affect your ability to drive a car or use mechanical equipment, risking injury to yourself or others. Know your symptoms of low blood sugar. Low blood sugar can be treated by drinking juice or regular soda or eating glucose tablets, sugar, or hard candy. Follow your healthcare provider's instructions for treating low blood sugar. Talk to your healthcare provider if low blood sugar is a problem for you.

- **Serious allergic reactions** (whole body allergic reaction). Severe, life-threatening allergic reactions can happen with insulin. Get medical help right away if you develop a rash over your whole body, have trouble breathing, wheezing, a fast heartbeat, or sweating.
- **Reactions at the injection site** (local allergic reaction). You may get redness, swelling, and itching at the injection site. If you keep having injection site reactions or they are serious, you need to call your healthcare provider. Do not inject insulin into a skin area that is red, swollen, or itchy.
- **Skin thickens or pits at the injection site (lipodystrophy)**. This can happen if you don't change (rotate) your injection sites enough.

These are not all the side effects from Humalog. Ask your healthcare provider or pharmacist for more information.

How should I store Humalog?

- **Store all unopened (unused) Humalog in the original carton in a refrigerator at 36°F to 46°F (2°C to 8°C).** Do not freeze.
- Do not use Humalog that has been frozen.
- Do not use after the expiration date printed on the carton and label.
- Protect Humalog from extreme heat, cold or light.

After starting use (open):

- **Vials:** Keep in the refrigerator or at room temperature below 86°F (30°C) for up to 28 days. Keep open vials away from direct heat or light. Throw away an opened vial 28 days after first use, even if there is insulin left in the vial.
- **Cartridge and Prefilled Pens:** Do not store a cartridge or prefilled pen that you are using in the refrigerator. Keep at room temperature below 86°F (30°C) for up to 28 days. Throw away a cartridge or prefilled pen 28 days after first use, even if there is insulin left in the cartridge or the pen.

General information about Humalog

Use Humalog only to treat your diabetes. Do not share it with anyone else, even if they also have diabetes. It may harm them.

This leaflet summarized the most important information about Humalog. If you would like more information about Humalog or diabetes, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information about Humalog that is written for health professionals.

For questions you may call 1-800-LillyRx (1-800-545-5979) or visit www.humalog.com.

What are the ingredients in Humalog?

Active ingredient: insulin lispro.

Inactive ingredients: glycerin, dibasic sodium phosphate, metacresol, zinc oxide (zinc ion), trace amounts of phenol and water for injection.

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