

MAKE UNDETECTABLE POSSIBLE

Take Action

with **TROGARZO®**
(ibalizumab-uiyk)

You can make undetectable possible and may be able to lower your pill count. Ask your healthcare provider about TROGARZO® (ibalizumab-uiyk).


TROGARZO® (ibalizumab-uiyk) is a prescription medicine that is used with other antiretroviral medicines to treat Human Immunodeficiency Virus-1 (HIV-1) infection in adults who:

- have received anti-HIV-1 regimens in the past, and
- have HIV-1 virus that is resistant to many antiretroviral medicines, and
- who are failing their current antiretroviral therapy

IMPORTANT SAFETY INFORMATION

Do not receive TROGARZO® if you have had an allergic reaction to TROGARZO® or any of the ingredients in TROGARZO®.

Please see Important Safety Information throughout and the full Prescribing Information for TROGARZO® online at www.trogarzo.com.

 **Trogarzo®**
(ibalizumab-uiyk)
Injection
200mg/1.33mL (150 mg/mL)

WHAT IS TROGARZO®?

TROGARZO® is a medicine that's used in combination with other antiretroviral medicines (ARV) to treat HIV-1 infection in adults who:



HAVE BEEN ON
**DIFFERENT HIV-1
TREATMENTS**
IN THE PAST



HAVE HIV-1 THAT
IS RESISTANT
TO MULTIPLE
ANTIRETROVIRAL
MEDICINES



ARE **CURRENTLY**
ON AN HIV-1
TREATMENT
THAT **IS FAILING**

UNDETECTABLE:* A POSSIBILITY AGAIN

If you have been on different HIV-1 treatments in the past and your current ARV regimen is failing, you deserve to know about all of your treatment options, including TROGARZO® – an HIV-1 treatment specifically designed for people like you.

Together, you and your healthcare provider can decide if TROGARZO® should be part of your treatment regimen to help keep your viral load in check.

* Undetectable viral load is defined as fewer than 50 copies of HIV RNA per mL of blood.



**ASK YOUR HEALTHCARE PROVIDER
IF TROGARZO® IS RIGHT FOR YOU**

IMPORTANT SAFETY INFORMATION

TROGARZO® can cause serious side effects, including:

- **Allergic reactions.** TROGARZO® can cause allergic reactions, including serious reactions, during and after infusion. Tell your healthcare provider or nurse, or get medical help right away if you get any of the following symptoms of an allergic reaction: trouble breathing, swelling in your throat, wheezing, chest pain, chest tightness, cough, hot flush, nausea or vomiting.

Please see Important Safety Information throughout and the enclosed full Prescribing Information for TROGARZO®. The TROGARZO® Prescribing Information is also available online at www.trogarzo.com.

UNDETECTABLE MAY BE WITHIN REACH.

CAN TROGARZO® REDUCE MY VIRAL LOAD?

Did you know that if your virus becomes resistant to multiple HIV-1 medications, treatment guidelines suggest considering using a drug that works differently than others you may have tried?

TROGARZO® works differently. TROGARZO® binds to the T-cell's surface to block HIV-1 from entering. This protects your immune cells from the virus.

THIS CAN REDUCE YOUR VIRAL LOAD.

In a clinical study, TROGARZO® was proven to have a significant and long-lasting impact on the amount of HIV-1 in the body, reducing the viral load.

83% OF PATIENTS EXPERIENCED A **DECREASE IN THEIR VIRAL LOAD** OF AT LEAST 66% ONE WEEK AFTER RECEIVING THEIR LOADING DOSE OF TROGARZO®.

Among heavily treatment-experienced patients who received TROGARZO® within the original clinical trials:

50% achieved and maintained viral suppression (<200 copies/mL), and

43% achieved and maintained an undetectable viral load (<50 copies/mL) through 25 weeks of treatment.

IMPORTANT SAFETY INFORMATION

TROGARZO® can cause serious side effects, including:

Changes in your immune system (Immune Reconstitution Inflammatory Syndrome) can happen when you start taking HIV-1 medicines. Your immune system might get stronger and begin to fight infections that have been hidden in your body for a long time. Tell your healthcare provider right away if you start having new symptoms after receiving TROGARZO®.

A PROVEN TOLERABILITY & SAFETY PROFILE[†]



TROGARZO® is generally well tolerated, with a low incidence of adverse reactions.

The most common side effects of TROGARZO® were diarrhea, dizziness, nausea, and rash. Most adverse reactions reported were mild to moderate in severity.



Did you know that some HIV-1 medications can cause interactions with other drugs which can reduce their efficacy or increase side effects?

TROGARZO® does not interact with other drugs, so you can take it with other medications you may be taking.

Be sure to discuss other medications you may be taking with your healthcare provider before taking TROGARZO®.

TROGARZO® is long-acting, which means that it maintains a sufficient level of medication in the body over its dosing period of 14 days.

IMPORTANT SAFETY INFORMATION

Before you receive TROGARZO®, tell your healthcare provider about all of your medical conditions, including if you are:

- **Breastfeeding or plan to breastfeed.** You should not breastfeed if you have HIV-1 because of the risk of passing HIV-1 to your baby. Do not breastfeed if you are receiving TROGARZO® as it is not known if TROGARZO® passes into breast milk. Talk with your healthcare provider about the best way to feed your baby during treatment with TROGARZO®.

The most common side effects of TROGARZO® include diarrhea, dizziness, nausea, and rash. These are not all the possible side effects of TROGARZO®.

Do not receive TROGARZO® if you have had an allergic reaction to TROGARZO® or any of the ingredients in TROGARZO®.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

Please see Important Safety Information throughout and the enclosed full Prescribing Information for TROGARZO®. The TROGARZO® Prescribing Information is also available online at www.trogarzo.com.

[†] Data from the original TROGARZO® studies.

TROGARZO[®], A POWERFUL HIV-1 TREATMENT

Did you know that there is another option to taking daily pills?

TROGARZO[®] is not a daily pill. It is a long-acting agent given once every two weeks to help make an undetectable viral load possible.



Given once
every 2 weeks



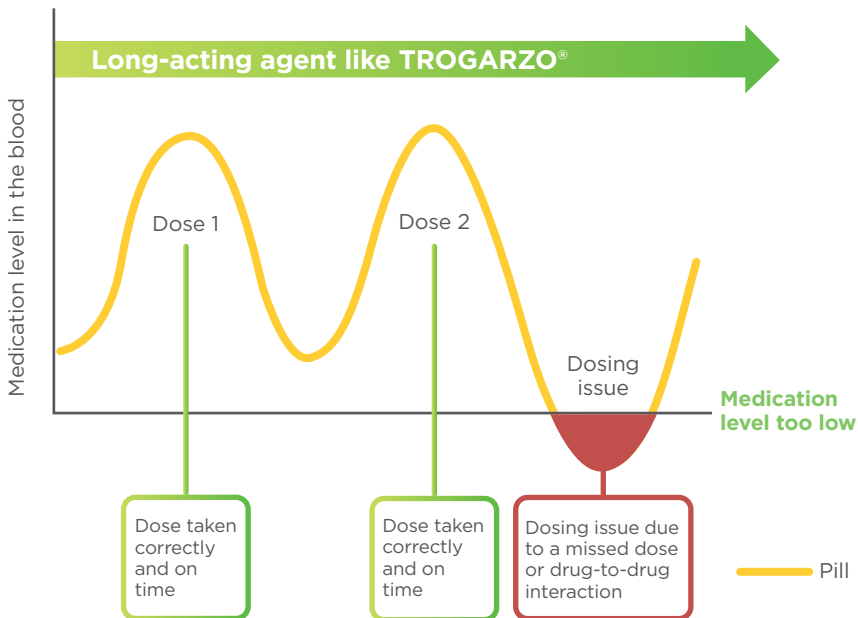
Appointments arranged
by your personal
**THERA Patient Care
Coordinator**



Given by a **healthcare provider**
at home, your healthcare
provider's office, or a
hospital/IV center nearby

How does the dosing of TROGARZO[®] make it different from pills?

TROGARZO[®] was the first available long-acting antiretroviral against HIV-1 – a breakthrough in a class of its own.



If the level of medication in your body falls into the “red zone”, it means that the level may not be high enough to suppress your viral load and your virus can become resistant to your current medication.

SIMPLIFIED ADMINISTRATION VIA IV PUSH

TROGARZO® can be administered every 2 weeks as an intravenous push (IV push).^{†‡} An IV “push” is a rapid injection of medication into your bloodstream.



**Your first dose can
be administered
over 90 seconds**



**All following doses
can be administered
over 30 seconds**

A healthcare provider will administer and monitor you during the administration of TROGARZO®, and for a period of time after the administration is complete.

What are the benefits of a 2-week touchpoint?

The TROGARZO® administration schedule means that throughout your TROGARZO® journey you get care and support. You can take this opportunity to ask questions about your health or treatment.

[†] All patients must be observed for 1 hour after completion of TROGARZO® loading dose. If no administration-associated adverse reactions are observed, the post-administration observation time for subsequent maintenance doses can be reduced to 15 minutes.

[‡] TROGARZO® can also be administered as an IV infusion. Administration time for IV infusion differs from that of IV push. Consult the TROGARZO® Prescribing Information for complete dosing and administration information. Discuss the administration options of TROGARZO® with your healthcare provider to identify which may be right for you.

WHERE CAN I HAVE TROGARZO® ADMINISTERED?



**YOUR
HEALTHCARE
PROVIDER'S
OFFICE**



YOUR HOME



**HOSPITAL OR
IV CENTER
NEARBY**

Depending on your insurance coverage, your THERA patient care coordinator will arrange for your treatment to be given at a location of your choosing – at your healthcare provider's office, in your own home, or at a nearby hospital or IV center.

If you decide over time that another location would be more convenient for you, simply let them know.

You can also reach them by phone to ask any questions you may have about your treatment.

WHAT TO EXPECT DURING TROGARZO® ADMINISTRATION

Before

- Ask your THERA Patient Care Coordinator if you should bring any documents (like insurance information) to your appointment.

During

- Someone will monitor you during treatment.
- Take the opportunity to discuss HIV-related topics with the care provider.

After

- You'll also be monitored afterwards for a short period of time to ensure that your body tolerates your treatment well.



*“Know your options and
get all the information.
Do you want to continue the course
you’re on or try something new?
I’ve seen my viral load and CD4
improve, as well as my overall health.”*

-Jason's experience with Trogarzo

This is the experience of one patient and may not be representative of all TROGARZO® patients.

IMPORTANT SAFETY INFORMATION

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

Please see Important Safety Information throughout and the enclosed full Prescribing Information for TROGARZO®. The TROGARZO® Prescribing Information is also available online at www.trogarzo.com.

93% OF TROGARZO® PATIENTS SURVEYED RECOMMEND TROGARZO® TO OTHER APPROPRIATE PATIENTS.

87%

reported that having a 2-week touchpoint with an HCP was a positive experience.

80%

reported that having a 2-week touchpoint with an HCP helped them adhere to their other HIV medications.

[†] This single-blinded study required patients (n=30) to complete a brief online survey regarding patient experience with TROGARZO®. Respondents had been taking TROGARZO® an average of 8.5 months and average duration of treatment ranged from 1 to 18 months. The survey included 20 questions of various types (i.e., Likert scale, dichotomous, multiple choice, open-ended), which were analyzed in aggregate and by infusion setting (i.e., HCP clinic, infusion center, or at home). All surveys were completed from December 2020 – March 2021 (prior to the availability of the IV push administration method), and all participants were compensated for their time.

[‡] Applies to 15/30 respondents. Information for the remaining 15 respondents was not available.

IMPORTANT SAFETY INFORMATION

Before you receive TROGARZO® tell your healthcare provider about all of your medical conditions, including if you are:

- **Breastfeeding or plan to breastfeed.** You should not breastfeed if you have HIV-1 because of the risk of passing HIV-1 to your baby. Do not breastfeed if you are receiving TROGARZO® as it is not known if TROGARZO® passes into breast milk. Talk with your healthcare provider about the best way to feed your baby during treatment with TROGARZO®.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

THERA patient support® Program

There for you every step of the way

THERA patient support® is your dedicated team available throughout your TROGARZO® treatment journey. We know every patient has unique needs, that is why the THERA patient support® team is here to provide financial assistance, resources, and information regardless of the type of insurance you have.

Benefits of the THERA patient support® Program



Financial Assistance Program to help cover the cost of care

Commercial Insurance

If you have private or commercial insurance that you get from your employer or directly from a health insurance company — you may be eligible for THERA's TROGARZO® Co-Pay Assistance Program.

Government Insurance

THERA patient support® can provide information and resources that may be able to lower your out-of-pocket costs.

Patient Assistance Program

THERA's Patient Assistance Program offers qualifying patients THERA medications at no cost.



Nurse Navigator Support

Your THERA Nurse Navigator is your dedicated partner throughout your TROGARZO® treatment journey. Along with answering any treatment related questions, they will also set up bi-weekly calls to help you stay on track.



Treatment Coordination

Your THERA Patient Care Coordinator will arrange for your treatment to be given at a convenient location of your choice including:

- Your home
- Your healthcare provider's office
- A hospital/IV center nearby

Once your healthcare provider has prescribed you TROGARZO®, call THERA patient support® at 1-833-23-THERA/1-833-238-4372 and make sure you are enrolled in the THERA patient support® Program.



**LEARN MORE AT
TROGARZO.COM**

Scan the QR code to
visit the website today!

IS TROGARZO® RIGHT FOR YOU?

Are you getting the most from your HIV-1 treatment?

If you have had to change your HIV medications in the past, and your viral load is still detectable while you are taking your current HIV medication, these questions can help you and your healthcare provider decide if TROGARZO® could be right for you.

1. Are you having any challenges adhering to your current HIV treatment?	<input type="checkbox"/> YES <input type="checkbox"/> NO
2. Do you feel more time with a healthcare provider would be helpful for you to stick with your HIV therapy?	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. Would you be open to including something other than a daily pill in your treatment regimen if given the choice?	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. Do you worry about side effects from HIV medications, or interactions with other pills?	<input type="checkbox"/> YES <input type="checkbox"/> NO

Discuss your answers with your doctor to better understand if TROGARZO® could be right for you

START THE CONVERSATION

At your next visit with your healthcare provider,
ask to learn more about TROGARZO®!

If your current HIV-1 treatment is failing, it is important to know all of your treatment options. Ask your healthcare provider if TROGARZO® should be part of your regimen to keep your viral load in check.

Remember to bring a copy of this TROGARZO® Discussion Guide with you to your next appointment.

IMPORTANT SAFETY INFORMATION

TROGARZO® (ibalizumab-uiyk) is a prescription medicine that is used with other antiretroviral medicines to treat Human Immunodeficiency Virus-1 (HIV-1) infection in adults who:

- have received anti-HIV-1 regimens in the past, and
- have HIV-1 virus that is resistant to many antiretroviral medicines, and
- who are failing their current antiretroviral therapy

It is not known if TROGARZO® is safe and effective in children.

COULD TROGARZO® BE RIGHT FOR YOU?

Have you had to change your HIV medications in the past? Is your viral load still detectable while you are taking your current HIV medications?

Are you looking for a different option because your current regimen is no longer working for you?

LEARN MORE AT [TROGARZO.COM](https://trogarzo.com)



Scan the QR code to learn more about TROGARZO® Online!

 • THERA patient support®

If you have any questions, call the THERA patient support®
Program at **1-833-23-THERA (1-833-238-4372)**,
Monday-Friday, 8:30AM-8PM ET.


IMPORTANT SAFETY INFORMATION


The most common side effects of TROGARZO® include diarrhea, dizziness, nausea, and rash. These are not all the possible side effects of TROGARZO®.

Please see Important Safety Information throughout and the enclosed full Prescribing Information for TROGARZO®. The TROGARZO® Prescribing Information is also available online at www.trogarzo.com.



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US-TRO-2400008

 **Trogarzo®**
(ibalizumab-uiyk)
Injection
200 mg/1.33 mL (150 mg/mL)



Trogarzo®

(ibalizumab-uiyk)
Injection
200 mg/1.33 mL (150 mg/mL)

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use TROGARZO safely and effectively. See full prescribing information for TROGARZO.

TROGARZO® (ibalizumab-uiyk) injection, for intravenous use
Initial U.S. Approval: 2018

RECENT MAJOR CHANGES	
Dosage and Administration (2.1, 2.2, 2.3)	12/2023
INDICATIONS AND USAGE	

TROGARZO, a CD4-directed post-attachment HIV-1 inhibitor, in combination with other antiretroviral(s), is indicated for the treatment of human immunodeficiency virus type 1 (HIV-1) infection in heavily treatment-experienced adults with multidrug resistant HIV-1 infection failing their current antiretroviral regimen. (1)

DOSAGE AND ADMINISTRATION	
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The recommended dosage regimen is a single loading dose of 2,000 mg followed by a maintenance dose of 800 mg every 2 weeks administered as a diluted intravenous infusion (IV infusion) or undiluted intravenous push (IV push). (2.1, 2.2, 2.3)

	IV Infusion (Diluted)	IV Push (Undiluted)
Loading Dose 2,000 mg	Over at least 30 minutes	Over at least 90 seconds
Maintenance Dose 800 mg	Over at least 15 minutes	Over at least 30 seconds

DOSAGE FORMS AND STRENGTHS	
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Injection: 200 mg/1.33 mL (150 mg/mL) in a single-dose vial. (3)

CONTRAINDICATIONS	
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Prior hypersensitivity reaction to TROGARZO or any components of the product. (4)

WARNINGS AND PRECAUTIONS	
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- Hypersensitivity reactions including infusion-related reactions and anaphylactic reactions have been reported following infusion of TROGARZO. (5.1)
- Immune Reconstitution Inflammatory Syndrome (IRIS) has been reported in patients treated with combination antiretroviral therapies. (5.2)
- Embryo-Fetal Toxicity: Monitor infants exposed to TROGARZO in utero for signs and symptoms of immunosuppression. (5.3, 8.1)

ADVERSE REACTIONS	
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The most common adverse reactions (incidence ≥ 5%) were diarrhea, dizziness, nausea, and rash. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact THERA patient support* at 1-833-23THERA (1-833-238-4372) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

USE IN SPECIFIC POPULATIONS	
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Lactation: Women infected with HIV should be instructed not to breastfeed due to the potential for HIV transmission. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 12/2023

FULL PRESCRIBING INFORMATION: CONTENTS*

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- DOSAGE AND ADMINISTRATION
 - Recommended Dosage
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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

TROGARZO, in combination with other antiretroviral(s), is indicated for the treatment of human immunodeficiency virus type 1 (HIV-1) infection in heavily treatment-experienced adults with multidrug resistant HIV-1 infection failing their current antiretroviral regimen.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

The recommended dosage regimen is a single loading dose of 2,000 mg followed by a maintenance dose of 800 mg every 2 weeks administered as a diluted intravenous infusion (IV infusion) or undiluted intravenous push (IV push) [see *Dosage and Administration* (2.2, 2.3)]. TROGARZO is available in a single-dose, 2 mL vial containing 150 mg/mL of ibalizumab-uiyk. Each vial delivers approximately 1.33 mL containing 200 mg of ibalizumab-uiyk. Dose modifications of TROGARZO are not required when administered with any other antiretroviral or any other treatments.

2.2 Preparation

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Discard vial if solution is cloudy, if there is pronounced discoloration or if there is foreign particulate matter.

See Table 1 for the appropriate number of vials required to prepare both the loading dose of 2,000 mg and the maintenance doses of 800 mg.

Table 1. Recommended TROGARZO Dose and Number of Vials Per Administration

TROGARZO Dose	TROGARZO Vials (Total Volume to be Withdrawn)
Loading dose of 2,000 mg (IV infusion or undiluted IV push)	10 vials (13.3 mL)
Maintenance dose of 800 mg (IV infusion or undiluted IV push)	4 vials (5.32 mL)

TROGARZO solution for IV infusion or IV push should be prepared by a trained medical professional using aseptic technique as follows:

For intravenous infusion

For administration as an IV infusion, the appropriate number of vials are **diluted** in 250 mL of 0.9% Sodium Chloride Injection, USP.

- Remove the flip-off cap from the single-dose vial and wipe the stopper with an alcohol swab.
- Insert sterile syringe needle into the vial through the center of the stopper and withdraw 1.33 mL from each vial (NOTE: a small residual amount may remain in the vial, discard unused portion) and transfer into a 250 mL intravenous bag of 0.9% Sodium Chloride Injection, USP. Other intravenous diluents must not be used to prepare the TROGARZO solution for infusion.

- Once diluted, the TROGARZO solution should be administered immediately.

- If not administered immediately, store the diluted TROGARZO solution at room temperature (20°C to 25°C, 68°F to 77°F) for up to 4 hours, or refrigerated (2°C to 8°C, 36°F to 46°F) for up to 24 hours. If refrigerated, allow the diluted TROGARZO solution to stand at room temperature (20°C to 25°C, 68°F to 77°F) for at least 30 minutes but no more than 4 hours prior to administration.
- Discard partially used vials or empty vials of TROGARZO and any unused portion of the diluted TROGARZO solution.

For intravenous push

For administration as an IV push, **undiluted** TROGARZO solution is administered.

- Allow the vials to stand at room temperature for approximately 5 minutes.
- Remove the flip-off cap from the single-dose vial and wipe the stopper with an alcohol swab.
- Insert sterile syringe needle into the vial through the center of the stopper and withdraw 1.33 mL from each vial (NOTE: a small residual amount may remain in the vial, discard unused portion).
- The undiluted TROGARZO solution should be administered immediately.
- Discard partially used vials or empty vials of TROGARZO and any unused portion of the undiluted TROGARZO solution.

2.3 Administration

TROGARZO solution should be administered by a trained medical professional.

Administer TROGARZO intravenously (as an IV infusion or IV push) in the cephalic vein of the patient's right or left arm. If this vein is not accessible, an appropriate vein located elsewhere can be used. Table 2 outlines the duration of IV infusion or IV push for the loading dose and maintenance dose.

Table 2. Duration of IV Infusion or IV Push

	IV Infusion (Diluted)	IV Push (Undiluted)
Loading Dose 2,000 mg	Over at least 30 minutes	Over at least 90 seconds
Maintenance Dose 800 mg	Over at least 15 minutes	Over at least 30 seconds

After the IV infusion is complete, flush with 30 mL of 0.9% Sodium Chloride Injection, USP.

After the IV push is complete, flush with 2 to 5 mL of 0.9% Sodium Chloride Injection, USP.

All patients must be observed for 1 hour after completion of TROGARZO loading dose as an IV infusion or IV push. If the patient does not experience an infusion-associated adverse reaction, the post-administration observation time for the subsequent maintenance doses (IV infusion or IV push) can be reduced to 15 minutes.

If a maintenance dose (800 mg) of TROGARZO is missed by 3 days or longer beyond the scheduled dosing day, a loading dose (2,000 mg) should be administered as early as possible. Resume maintenance dosing (800 mg) every 14 days thereafter.

3 DOSAGE FORMS AND STRENGTHS

Injection: 200 mg/1.33 mL (150 mg/mL) colorless to slightly yellow and clear to slightly opalescent solution with no visible particles in a single-dose vial.

4 CONTRAINDICATIONS

TROGARZO is contraindicated in patients with a prior hypersensitivity reaction to TROGARZO or any components of the product [see *Warnings and Precautions* (5.1)].

5 WARNINGS AND PRECAUTIONS

5.1 Hypersensitivity Including Infusion-Related and Anaphylactic Reactions

Hypersensitivity reactions including infusion-related reactions and anaphylactic reactions have been reported following infusion of TROGARZO during post-approval use. Symptoms may include dyspnea, angioedema, wheezing, chest pain, chest tightness, cough, hot flush, nausea, and vomiting. If signs and symptoms of an anaphylactic or other clinically significant hypersensitivity reaction occur, immediately discontinue administration of TROGARZO and initiate appropriate treatment. The use of TROGARZO is contraindicated in patients with known hypersensitivity with TROGARZO [see *Contraindications* (4), *Adverse Reactions* (6.2)].

5.2 Immune Reconstitution Inflammatory Syndrome

Immune reconstitution inflammatory syndrome has been reported in one patient treated with TROGARZO in combination with other antiretrovirals. During the initial phase of combination antiretroviral therapies, patients whose immune systems respond may develop an inflammatory response to indolent or residual opportunistic infections, which may necessitate further evaluation and treatment.

5.3 Embryo-Fetal Toxicity

Based on animal data, TROGARZO may cause reversible immunosuppression (CD4+ T cell and B cell lymphocytopenia) in

infants born to mothers exposed to TROGARZO during pregnancy. Immune phenotyping of the peripheral blood and expert consultation are recommended to provide guidance regarding monitoring and management of exposed infants based on the degree of immunosuppression observed. The safety of administering live or live-attenuated vaccines in exposed infants is unknown. [see *Use In Specific Populations* (8.1)].

6 ADVERSE REACTIONS

The following adverse drug reactions are discussed in other sections of the labeling:

- Immune Reconstitution Inflammatory Syndrome [see *Warnings and Precautions* (5.2)]

6.1 Clinical Trial Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

A total of 350 subjects have been exposed to TROGARZO in the ibalizumab clinical development program, including 45 subjects who received TROGARZO through expanded access programs. A total of 19 subjects received TROGARZO via IV push. The safety profile of TROGARZO administered via IV push (Trial TMB-302) was similar to that seen with IV infusion administration (Trial TMB-301) [see *Clinical Pharmacology* (12.3)].

Trial TMB-301

The primary safety assessment of TROGARZO is based on 24 weeks of data from Trial TMB-301. TMB-301 was a single-arm trial of TROGARZO which enrolled 40 heavily treatment-experienced subjects with multidrug resistant HIV-1 on a failing HIV treatment regimen. Subjects received a single 2,000 mg IV loading dose of TROGARZO followed seven days later by the initiation of an optimized background regimen (OBR) including at least one agent to which the subject's virus was susceptible. Two weeks after the TROGARZO loading dose, 800 mg of TROGARZO was administered IV. The IV administration of TROGARZO 800 mg was continued every 2 weeks through Week 25.

The most common adverse reactions (all Grades) reported in at least 5% of subjects were diarrhea, dizziness, nausea, and rash. Table 3 shows the frequency of adverse reactions occurring in 5% or more of subjects.

Table 3. Adverse Reactions (All Grades) Reported in ≥ 5% of Subjects Receiving TROGARZO and Optimized Background Regimen for 23 Weeks in Trial TMB-301

	% Subjects N=40
Diarrhea	8%
Dizziness	8%
Nausea	5%
Rash*	5%

*Includes pooled terms "rash", "rash erythematous", "rash generalized", "rash macular", "rash maculopapular", and "rash papular"

Most (90%) of the adverse reactions reported were mild or moderate in severity. Two subjects experienced severe adverse reactions: one subject had a severe rash and one subject developed immune reconstitution inflammatory syndrome manifested as an exacerbation of progressive multifocal leukoencephalopathy.

Laboratory Abnormalities

Table 4 shows the frequency of laboratory abnormalities (≥ Grade 3) in Trial TMB-301.

Table 4. Selected Laboratory Abnormalities (≥ Grade 3) in Trial TMB-301

	% Subjects N=40
Bilirubin (≥ 2.6 x ULN)	5%
Direct Bilirubin (> ULN)	3%
Creatinine (> 1.8 x ULN or 1.5 x baseline)	10%
Blood Glucose (> 250 mg/dL)	3%
Lipase (> 3.0 x ULN)	5%
Uric Acid (> 12 mg/dL)	3%
Hemoglobin (< 8.5 g/dL)	3%
Platelets (< 50,000/mm ³)	3%
Leukocytes (< 1.5 x 10 ⁹ cells/L)	5%

Neutrophils (< 0.6 x 10 ⁹ cells/L)	5%
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6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of TROGARZO. Because these reactions are reported voluntarily from a population of uncertain size, it is not possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

- Immune system disorders: hypersensitivity reactions including infusion-related reactions and anaphylactic reactions have been reported [see *Warnings and Precautions* (5.1)].

- Skin and subcutaneous tissue disorders: pruritus.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Exposure Registry

There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to antiretrovirals during pregnancy. This registry does not include Trogarzo, but likely includes patients' concomitant antiretroviral drugs. Healthcare providers are encouraged to register patients by calling the Antiretroviral Pregnancy Registry (APR) at 1-800-258-4263.

Risk Summary

Based on animal data, ibalizumab-uiyk use during pregnancy may cause reversible immunosuppression (CD4+ T cell and B cell lymphocytopenia) in infants exposed to ibalizumab-uiyk in utero. Immunoglobulin G (IgG) antibodies, such as ibalizumab-uiyk, are transported across the placenta in significant amounts, especially near term; therefore, ibalizumab-uiyk has the potential to be transferred from the mother to the developing fetus (see *Clinical Considerations*). There are no available data on ibalizumab-uiyk use in pregnant women to evaluate for a drug- associated risk of major birth defects, miscarriage or adverse maternal or fetal outcomes. The background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

In a reproductive study in monkeys, reversible decreases in CD4+ T cells and B cells and increases in CD8+ T cells were observed within the first 4 weeks after birth in infants born to pregnant monkeys receiving ibalizumab-uiyk intravenously (see *Data*). Lymphocyte counts returned to near normal levels by 3 months of age. One infant monkey died from a systemic viral infection that may be related to ibalizumab-uiyk-induced immunosuppression. No malformations or premature births were observed in this study.

Clinical Considerations

Fetal/Neonatal Adverse Reactions

Immunoglobulin G (IgG) antibodies are increasingly transported across the placenta as pregnancy progresses, with the largest amount transferred during the third trimester. Administration of TROGARZO during pregnancy may affect immune responses in the in utero-exposed infant. For infants with perinatal exposure to TROGARZO, immune phenotyping of the peripheral blood, including CD4+ T cell and B cell counts, is recommended. Expert consultation is also recommended to provide guidance on monitoring and management (e.g., need for antibiotic or immunoprophylaxis) of exposed infants based on the degree of immunosuppression observed. The safety of administering live or live-attenuated vaccines in exposed infants is unknown.

Data

Animal Data

In an enhanced pre- and post-natal development (ePPND) study, pregnant cynomolgus monkeys were administered intravenous doses of either vehicle or 110 mg/kg ibalizumab-uiyk every week from Gestation Day 20-22 (GD 20-22) until parturition on GD 160 ± 10. Significant changes in infant monkey immune cell levels on Postnatal Day (PND) 14 (mean decreases of 78% in CD4+ T cells and 46% in B cells and increases of 2.3-fold in CD8+ T cells) and PND 28 (mean decreases of 73% in CD4+ T cells and increases of 2.2-fold in CD8+ T cells), attributed to in utero ibalizumab-uiyk exposure, were observed relative to concurrent controls. The lymphocyte changes correlated with infant ibalizumab-uiyk serum concentrations and appeared to return to near normal levels between PND 28-91, when ibalizumab-uiyk concentrations were nearly undetectable.

Although ibalizumab-uiyk exposure in these infant monkeys may be significantly higher than in human infants following in utero exposure at the recommended human maintenance dose, the risk of ibalizumab-uiyk-induced immunosuppression in human infants is possible. No meaningful differences in infant monkey lymphocyte counts were observed on PND 180. Further, no differences in immune cell function were observed in a T cell-dependent response assay conducted on PND 138 to 180 ± 2 following immunization of the infant monkeys with keyhole limpet hemocyanin. One treatment-group infant monkey died on PND 24 from a systemic viral

infection with secondary superficial bacterial infection which was acquired during the postnatal period. Despite the low incidence (1 of 20 infants), the death may be related to ibalizumab-uiyk-induced immunosuppression. Decreases in CD4+ T cells (93%), and B cells (92%) were observed in this infant on PND 14, and decreased cellularity was observed in the spleen, thymus and mandibular lymph node. Unlike the rest of the ibalizumab-exposed infant monkey population, this infant also exhibited a decrease in CD8+ T cells of 71% on PND 14. Body weight was also decreased in this infant between PND 14 and 24. No structural abnormalities were observed among the ibalizumab-uiyk-exposed infants. In addition, no maternal toxicities, including no changes in maternal lymphocyte subsets or effects on embryo-fetal survival, were observed.

8.2 Lactation

Risk Summary

The Centers for Disease Control and Prevention recommend that HIV-1-infected mothers in the United States not breastfeed their infants to avoid the risk of postnatal transmission of HIV-1 infection.

No data are available regarding the presence of TROGARZO in human milk, the effects on the breastfed child, or the effects on milk production. Human IgG is present in human milk, although published data indicate that antibodies in breast milk do not enter the neonatal or infant circulation system in substantial amounts. Because of the potential for HIV-1 transmission, instruct mothers not to breastfeed if they are receiving TROGARZO.

8.4 Pediatric Use

The safety and effectiveness of TROGARZO in pediatric patients have not been established.

8.5 Geriatric Use

No studies have been conducted with TROGARZO in geriatric patients.

11 DESCRIPTION

TROGARZO is a CD4-directed post-attachment HIV-1 inhibitor.

Ibalizumab-uiyk is a CD4 domain 2-directed humanized monoclonal antibody of immunoglobulin G (IgG) isotype 4 with a molecular weight of approximately 150 kDa. Ibalizumab-uiyk is produced by recombinant DNA technology in murine myeloma non-secreting 0 (NS0) cells.

TROGARZO Injection is a sterile, colorless to slightly yellow and clear to slightly opalescent solution with no visible particles in a single-dose vial for intravenous administration (by IV infusion or IV push). Each single-dose vial delivers approximately 1.33 mL containing 200 mg of ibalizumab-uiyk and contains the following inactive ingredients: 10 mM L-histidine (2.06 mg), 0.045% polysorbate 80 (0.60 mg), 52 mM sodium chloride (4.04 mg) and 5.2% sucrose (69.2 mg). TROGARZO solution has a pH of 6.0 and contains no preservative.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Ibalizumab-uiyk is an HIV-1 antiretroviral drug [see *Microbiology* (12.4)].

12.2 Pharmacodynamics

A clear trend was identified between exposure and response rate for the Phase 2b trial (TMB-202) which studied two different intravenous doses given at two different dosing intervals (every 4 weeks vs. every 2 weeks). The recommended intravenous dosing regimen consisting of a 2,000 mg loading dose followed by a maintenance dose of 800 mg every 2 weeks was selected on the basis of these results.

12.3 Pharmacokinetics

Ibalizumab-uiyk administered as a single agent exhibits nonlinear pharmacokinetics. Following single-dose administrations of ibalizumab-uiyk as 0.5 to 1.5-hour infusions, the area under the concentration-time curve increased in a greater than dose-proportional manner, clearance decreased from 9.54 to 0.36 mL/h/kg and elimination half-life increased from 2.7 to 64 hours as the dose increased from 0.3 to 25 mg/kg. The volume of distribution of ibalizumab-uiyk was approximately that of serum volume, at 4.8 L.

Following the recommended dose regimen (a single loading dose of 2,000 mg followed by a maintenance dose of 800 mg every 2 weeks), ibalizumab-uiyk concentrations reached steady-state levels after the first 800 mg maintenance dose with mean concentrations over 30 mcg/mL throughout the dosing interval. Among HIV-infected subjects, the pharmacokinetic data from Trial TMB-302 demonstrated that ibalizumab-uiyk C_{trough} and AUC_{0-24h} values between IV push administration and IV infusion administration for maintenance dose were similar. The C_{max} values were 25% higher for IV push compared to the IV infusion administration. The increase in C_{max} is not considered clinically relevant.

The initial loading dose of ibalizumab-uiyk as an IV push administration over 90 seconds is predicted to have a similar C_{max} and AUC relative to IV infusion administration over 30 minutes.

Specific Populations

A population pharmacokinetic analysis was performed to explore the potential effects of selected covariates (age, body weight, sex, baseline CD4+ cell count) on ibalizumab-uiyk pharmacokinetics. The

result suggests that ibalizumab-uiyk concentration decreases as body weight increases; however, the effect is unlikely to impact virologic outcome and does not warrant a dose adjustment.

Pediatric/Geriatric Patients: Ibalizumab-uiyk pharmacokinetics have not been evaluated in pediatric or geriatric patients *[see Use in Specific Populations (8.4, 8.5)]*.

Renal/Hepatic Impairment: No formal studies were conducted to examine the effects of either renal or hepatic impairment on the pharmacokinetics of ibalizumab-uiyk. Renal impairment is not anticipated to impact the pharmacokinetics of ibalizumab-uiyk.

Drug Interaction Studies

No drug interaction studies have been conducted with ibalizumab-uiyk. Based on ibalizumab-uiyk's mechanism of action and target-mediated drug disposition, drug-drug interactions are not expected.

12.4 Microbiology

Mechanism of Action

Ibalizumab-uiyk, a recombinant humanized monoclonal antibody, blocks HIV-1 from infecting CD4⁺ T cells by binding to domain 2 of CD4 and interfering with post-attachment steps required for the entry of HIV-1 virus particles into host cells and preventing the viral transmission that occurs via cell-cell fusion.

Ibalizumab-uiyk Does Not Impact CD4 Function

The binding specificity of ibalizumab-uiyk to domain 2 of CD4 allows ibalizumab-uiyk to block viral entry into host cells without causing immunosuppression. Epitope mapping studies indicate that ibalizumab-uiyk binds to a conformational epitope located primarily in domain 2 of the extracellular portion of the CD4 receptor. This epitope is positioned on the surface of CD4 opposite to the site in domain 1 that is required for CD4 binding of the MHC class II molecules and therefore does not interfere with CD4-mediated immune functions. Additionally, ibalizumab-uiyk does not interfere with gp120 attachment to CD4.

Antiviral Activity

Ibalizumab-uiyk inhibits the replication of CCR5- and CXCR4-tropic laboratory strains and primary isolates of HIV-1 in phytohemagglutinin stimulated peripheral blood lymphocytes. The median EC₅₀ value (50% effective concentration) for ibalizumab-uiyk against HIV-1 group M isolates (subtypes A, B, C, D, E, or O) was 8 ng/mL (n = 15, range of 0.4 to 600 ng/mL) in cell culture, with lower susceptibility observed in macrophage-tropic HIV-1 strains (BaL, JR-CSF, YU2, and ADA-M). In a single-cycle infection assay, ibalizumab-uiyk inhibited 17 clinical isolates of subtype B with a median EC₅₀ value of 12 ng/mL (range of 8.8 to 16.9 ng/mL; mean 12 ± 3 ng/mL) and a median maximum percentage inhibition (MPI) of 97% (range of 89 to 99%; mean 97 ± 3%). Three CCR5-tropic clinical isolates from subtypes B, C, and D, were inhibited with EC₅₀ values ranging from 59-66 ng/mL and 3 CXCR4-tropic clinical isolates from subtypes B, C, and D, with EC₅₀ values ranging from 44-59 ng/mL.

Antiviral Activity in Combination with Other Antiviral Agents

No antagonism was observed when PBMCs or MAGI-CCR5 cells infected with the subtype B Ba-L or ADA variants of HIV-1 were incubated with ibalizumab-uiyk in combination with the CCR5 co-receptor antagonist maraviroc or when PBMCs infected with the subtype B HT/92/599 variant of HIV-1 were incubated with ibalizumab-uiyk in combination with the gp41 fusion inhibitor enfuvirtide; a nonnucleoside reverse transcriptase inhibitor (efavirenz); nucleoside analog reverse transcriptase inhibitors (abacavir, didanosine, emtricitabine, tenofovir, or zidovudine); or a protease inhibitor (atazanavir).

Antiviral Activity in Antiretroviral-Resistant Virus

Subjects enrolled in TMB-301 were heavily treatment-experienced subjects infected with multidrug resistant HIV-1. Ibalizumab-uiyk inhibited 38 baseline isolates at a median EC₅₀ value of 31 ng/mL (range of 13 to 212 ng/mL; mean 39 ± 35 ng/mL) with a median MPI of 97% (range of 41-100%; mean 91 ± 14%). For 10 subjects in TMB-301 who failed treatment, at the time of failure the median ibalizumab-uiyk EC₅₀ value was 566 ng/mL (range of 148 to >54,900 ng/mL; mean 11,768 ± 21,650 ng/mL) representing an EC₅₀ value shift of >18-fold. For the HIV-1 derived from the same subjects, the median MPI was 55% (range of 43-72%; mean 56 ± 8%) representing a 42 percentage point reduction.

Decreased Susceptibility

Decreased susceptibility to ibalizumab-uiyk, as defined by a decrease in MPI, has been observed in some subjects experiencing virologic failure and may be associated with genotypic changes in the HIV-1 envelope coding sequence that results in the loss of potential N-linked glycosylation sites (PNGS) in the V5 loop of gp120. The clinical significance of decreased susceptibility to ibalizumab-uiyk has not been established.

Cross-Resistance

Phenotypic and genotypic test results revealed no evidence of cross-resistance between ibalizumab-uiyk and any of the approved classes of anti-retroviral drugs (CCR5 co-receptor antagonists,

gp41 fusion inhibitors, integrase strand transfer inhibitors [INSTIs], non-nucleos(t)ide reverse transcriptase inhibitors [NNRTIs], nucleos(t)ide reverse transcriptase inhibitors [NRTIs], or protease inhibitors [PIs]). Ibalizumab-uiyk is active against HIV-1 resistant to all approved antiretroviral agents and exhibits antiretroviral activity against R5-tropic, X4-tropic, and dual-tropic HIV-1.

Decreased susceptibility to ibalizumab-uiyk following multiple dose administrations of ibalizumab-uiyk has been observed in some subjects. Cell culture studies performed with HIV-1 variants with reduced susceptibility to ibalizumab-uiyk indicate that phenotypic changes associated with resistance to ibalizumab-uiyk do not alter susceptibility to other approved agents and do not result in the selection of CD4-independent viral isolates.

CD4 Polymorphisms and Ibalizumab-uiyk Activity

CD4 polymorphisms reported in public databases were analyzed to determine if any naturally occurring amino acid substitutions in the CD4 molecule from different human populations would potentially impact the antiviral activity of ibalizumab-uiyk. None of the known CD4 polymorphisms are likely to have an impact on ibalizumab-uiyk binding to CD4.

12.6 Immunogenicity

As with all therapeutic proteins, there is potential for immunogenicity. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to ibalizumab-uiyk in the studies described below with the incidence of antibodies in other studies or to other products may be misleading.

All subjects enrolled in clinical trial TMB-301 and trial TMB-202 (a Phase 2b clinical trial that studied TROGARZO administered intravenously as 2,000 mg every 4 weeks or 800 mg every 2 weeks; the safety and effectiveness of this dosing regimen has not been established), were tested for the presence of anti-ibalizumab antibodies throughout their participation. One sample tested positive with low titer anti-ibalizumab antibodies. No adverse reaction or reduced efficacy was attributed to the positive sample reported in this subject.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis, mutagenesis, and fertility studies with ibalizumab-uiyk have not been conducted.

14 CLINICAL STUDIES

Trial TMB-301:

Trial TMB-301 was a single arm, multicenter clinical trial conducted in 40 heavily treatment-experienced HIV-infected subjects with multidrug resistant HIV-1. Subjects were required to have a viral load greater than 1,000 copies/mL and documented resistance to at least one antiretroviral medication from each of three classes of antiretroviral medications as measured by resistance testing. Subjects must have been treated with antiretrovirals for at least 6 months and be failing or had recently failed (i.e., in the last 8 weeks) therapy.

The trial was composed of three discrete periods:

- Control period (Day 0 to Day 6):** Subjects were either monitored on their current failing therapy or received no therapy if they had failed and discontinued treatment within the 8 weeks preceding screening. This was an observational period to establish baseline HIV viral load.
- Functional monotherapy period (Day 7 to Day 13):** All subjects received a 2,000 mg loading dose of TROGARZO on Day 7. Subjects on a failing ART regimen continued to receive their failing regimen in addition to the loading dose of TROGARZO. This period was to establish the virologic activity of TROGARZO.
- Maintenance period (Day 14 to Week 25):** On Day 14 of the treatment period, viral load was assessed for the primary endpoint, and thereafter the background regimen was optimized to include at least one drug to which the subject's virus was susceptible. The use of an investigational drug(s) as a component of the optimized background regimen was allowed. Beginning at Day 21, an 800 mg maintenance dose of TROGARZO was administered every two weeks through Week 25. This period was to establish the safety and durability of virologic suppression of TROGARZO when used in combination with an optimized background regimen.

The majority of subjects in Trial TMB-301 were male (85%), white (55%) and between 23 and 65 years of age (mean [SD] age: 50.5 [11.0] years). At Baseline, median viral load and CD4⁺ T cell counts were 35,350 copies/mL and 73 cells/mm³, respectively. The subjects were heavily treatment-experienced: 53% of participants had been treated with 10 or more antiretroviral drugs prior to trial enrollment; 98% percent had been treated with NRTIs, 98% with PIs, 80% with NNRTIs, 78% with INSTIs, 30% with gp41 fusion inhibitors, and 20% with CCR5 co-receptor antagonists.

The primary efficacy endpoint was the proportion of subjects achieving a ≥ 0.5 log₁₀ decrease in viral load from the beginning to the end of the “Functional monotherapy period” as compared to the proportion of subjects achieving a ≥ 0.5 log₁₀ decrease from the beginning to the end of the “Control period”, as defined above. The results of the primary endpoint analysis are shown in Table 5 below.

Table 5. Proportion of Subjects Achieving a ≥ 0.5 log₁₀ Decrease in Viral Load at the End of the Control and Functional Monotherapy Periods

	Proportion of Subjects Achieving a ≥0.5 log ₁₀ Decrease in Viral Load N=40	95% CI*
End of Control Period	3%	(0.06%, 13%)
End of Functional Monotherapy Period	83%	(67%, 93%)

*exact 95% confidence interval

p < 0.0001 based on McNemar’s test comparing the proportion of subjects achieving ≥ 0.5 log₁₀ decrease in viral load at the end of the control and functional monotherapy periods.

At Week 25, viral load <50 and <200 HIV-1 RNA copies/mL was achieved in 43% and 50% of subjects, respectively. Fifty-five percent of subjects had a ≥ 1 log₁₀ reduction in viral load, and 48% of subjects had a ≥ 2 log₁₀ reduction in viral load at Week 25. An increase in the mean and median number of CD4⁺ T-cells (44 cells/mm³ and 17 cells/mm³, respectively) was observed from Baseline to Week 25. Week 25 outcomes are shown in Table 6 and Table 7.

Table 6. Trial TMB-301 Virologic Outcomes (Snapshot Algorithm) at Week 25

	TROGARZO (N=40)
HIV RNA < 50 copies/mL at Week 25	43%
HIV RNA ≥ 50 copies/mL at Week 25*	45%
HIV RNA < 200 copies/mL at Week 25	50%
HIV RNA ≥ 200 copies/mL at Week 25**	38%
No virologic data at Week 25	
Discontinued due to AE or death	13%

*included subjects who had ≥ 50 copies/mL in the Week 25 window, subjects who discontinued study drug due to lack of efficacy, and subjects who discontinued study drug for reasons other than an AE, death and at the time of discontinuation had a viral value ≥ 50 copies/mL

**included subjects who had ≥ 200 copies/mL in the Week 25 window, subjects who discontinued study drug due to lack of efficacy, and subjects who discontinued study drug for reasons other than an AE, death and at the time of discontinuation had a viral value ≥ 200 copies/mL

Table 7. Virologic Response at Week 25 by Baseline CD4 Cell count, Viral Load, Integrase Inhibitor Resistance and OSS*

	Subjects achieving <50 HIV-1 RNA copies/mL (%)	Subjects achieving <200 HIV-1 RNA copies/mL (%)
CD4 Cell Counts		
<50 (n=17)	18	24
50-200 (n=10)	60	70
>200 (n=13)	62	69
Viral Load		
≤100,000 (n=33)	49	58
>100,000 (n=7)	14	14
Resistance		
With INSTI		
Resistance (n=27)	41	44
Without INSTI		
Resistance (n=13)	46	62
OSS		
0 (n=5)	20	20
1 (n=12)	42	50
2 (n=18)	50	61
3 (n=3)	33	33
4 (n=2)	50	50

*OSS – Overall Susceptibility Score. The OSS indicates the number of fully active drugs in a subject's OBR based on both current and available historical resistance test results. Demonstrating drug susceptibility by both genotypic and phenotypic testing was required, when testing by both methods was technically feasible. As an example, an OSS of 2 would indicate that the HIV-1 isolate tested was fully susceptible to two drugs in the OBR.

16 HOW SUPPLIED/STORAGE AND HANDLING

TROGARZO (ibalizumab-uiyk) injection is a sterile colorless to

slightly yellow and clear to slightly opalescent solution with no visible particles for intravenous administration (by IV infusion or IV push). It is packaged in a single-dose 2 mL clear glass vial containing 200 mg/1.33 mL (150 mg/mL) of ibalizumab-uiyk. TROGARZO vial stopper is not made with natural rubber latex.

TROGARZO is available in a carton containing two single-dose vials (NDC 62064-122-02).

Store vials under refrigeration at 2 to 8°C (36–66°F). Do not freeze and protect from light.

Once diluted, the TROGARZO solution should be administered immediately *[see Dosage and Administration (2.2)]*.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Hypersensitivity

Advise patients of the risk of hypersensitivity reactions including anaphylaxis. Instruct patients to seek immediate medical attention if signs or symptoms of hypersensitivity occur or are suspected. Advise patients who have had clinically significant hypersensitivity reactions to TROGARZO that they should not receive TROGARZO *[see Contraindications (4), Warnings and Precautions (5.1)]*.

Immune Reconstitution Syndrome

Immune Reconstitution Inflammatory Syndrome: Advise patients that immune reconstitution syndrome has been reported in a patient receiving TROGARZO and to inform their health care provider immediately of any symptoms of infection *[see Warnings and Precautions (5.2)]*.

Important Administration Information

Advise the patient it is important to receive TROGARZO injections every two weeks as recommended by their healthcare professional and not to change the dosing schedule of TROGARZO or any antiretroviral medication without consulting their healthcare provider. Advise the patient to contact their healthcare provider immediately if they stop taking TROGARZO or any other drug in their antiretroviral regimen *[see Dosage and Administration (2)]*. Advise the patient that they may receive TROGARZO loading dose by IV infusion over at least 30 minutes or by IV push over 90 seconds and they may receive TROGARZO maintenance doses by IV infusion over 15 minutes or IV push over 30 seconds. Also, advise the patient to seek counsel of the healthcare provider regarding the most appropriate route of administration *[see Dosage and Administration (2.3)]*.

Embryo-fetal Toxicity

Advise pregnant individuals and females of reproductive potential of the potential risk of reversible immunosuppression in infants exposed to TROGARZO during pregnancy and to inform their healthcare provider of a known or suspected pregnancy *[see Warnings and Precautions (5.3) and Use in Specific Populations (8.1)]*.

Lactation

Instruct women with HIV-1 infection not to breastfeed because HIV-1 can be passed to the baby in breast milk *[see Use in Specific Populations (8.2)]*.

Manufactured by Theratechnologies Inc., 2015 Peel Street, Suite 1100, Montréal, Québec Canada H3A 1T8

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PATIENT INFORMATION

TROGARZO® (tro-gar-zo) (ibalizumab-uiyk) injection

What is TROGARZO?

TROGARZO is a prescription medicine that is used with other antiretroviral medicines to treat Human Immunodeficiency Virus-1 (HIV-1) infection in adults who:

- have received several anti-HIV-1 regimens in the past, **and**
- have HIV-1 virus that is resistant to many antiretroviral medicines, **and**
- who are failing their current antiretroviral therapy

HIV-1 is the virus that causes Acquired Immune Deficiency Syndrome (AIDS).

It is not known if TROGARZO is safe and effective in children.

	◦ trouble breathing	◦ cough
	◦ swelling in your throat	◦ hot flush
	◦ wheezing	◦ nausea
	◦ chest pain	◦ vomiting
	◦ chest tightness	

Before you receive TROGARZO, tell your healthcare provider about all of your medical conditions, including if you:

- are pregnant or plan to become pregnant. It is not known if TROGARZO may harm your unborn baby. Tell your healthcare provider if you become pregnant during treatment with TROGARZO.
- Pregnancy Registry:** There is a pregnancy registry for women who take antiretroviral medicines during pregnancy. The purpose of this registry is to collect information about the health of you and your baby. Talk with your healthcare provider about how you can take part in this registry.
- are breastfeeding or plan to breastfeed. Do not breastfeed if you are receiving TROGARZO.
 - You should not breastfeed if you have HIV-1 because of the risk of passing HIV-1 to your baby.
 - It is not known if TROGARZO passes into breast milk. Talk with your healthcare provider about the best way to feed your baby during treatment with TROGARZO.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

How will I receive TROGARZO?

- You will receive TROGARZO by your healthcare provider as an intravenous infusion (IV infusion) or as an intravenous push (IV push). The first dose will be given over 30 minutes by IV infusion or 90 seconds by IV push. After the first dose, the dose will be given over 15 minutes by IV infusion or 30 seconds by IV push. A healthcare provider will monitor you during the TROGARZO IV infusion or IV push and for a period of time after your IV infusion or IV push.
- You will receive TROGARZO every two weeks.
- It is important that you receive TROGARZO every two weeks as instructed by your healthcare provider. Do not change the schedule of your TROGARZO IV infusion or IV push, or any of your antiretroviral medicines without talking to your healthcare provider first.

- Tell your healthcare provider right away if you stop receiving TROGARZO or stop taking any other antiretroviral medicines.**

What are the possible side effects of TROGARZO?

TROGARZO can cause serious side effects, including:

- Allergic reactions.** TROGARZO can cause allergic reactions, including serious reactions, during and after IV infusion or IV push. Tell your healthcare provider or nurse, or get medical help right away if you get any of the following symptoms of an allergic reaction:


- Changes in your immune system (Immune Reconstitution Inflammatory Syndrome)** can happen when you start taking HIV-1 medicines. Your immune system might get stronger and begin to fight infections that have been hidden in your body for a long time. Tell your healthcare provider right away if you start having new symptoms after receiving TROGARZO.

The most common side effects of TROGARZO include:

- diarrhea
- nausea
- dizziness
- rash

These are not all of the possible side effects of TROGARZO.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

You may also report side effects to  **• THERA** patient support® at 1-833-23THERA (1-833-238-4372).


General information about the safe and effective use of TROGARZO.
Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. You can ask your healthcare provider for information about TROGARZO that is written for health professionals.

What are the ingredients in TROGARZO?
Active ingredient: ibalizumab-uiyk
Inactive ingredients: L-histidine, polysorbate 80, sodium chloride, and sucrose.

TROGARZO does not contain any preservative. TROGARZO vial stopper is not made with natural rubber latex.

Manufactured by: Theratechnologies Inc., 2015 Peel Street, Suite 1100, Montréal, Québec Canada H3A 1T8

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For more information, call  **• THERA** patient support® 1-833-23THERA (1-833-238-4372) or go to www.TROGARZO.com.

 • THERA technologies
This Patient Information has been approved by the U.S. Food and Drug Administration.

Revised: 12/2023
US-TRO-2300030