

# KRYSTEXXA- pegloticase injection, solution

## Horizon Therapeutics USA, Inc.

### HIGHLIGHTS OF PRESCRIBING INFORMATION

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

KRYSTEXXA® (pegloticase) injection, for intravenous use  
Initial U.S. Approval: 2010

#### **WARNING: ANAPHYLAXIS and INFUSION REACTIONS, G6PD DEFICIENCY ASSOCIATED HEMOLYSIS and METHEMOGLOBINEMIA**

*See full prescribing information for complete boxed warning.*

- Anaphylaxis and infusion reactions have been reported to occur during and after administration of KRYSTEXXA. (5.1, 5.2)
- Anaphylaxis may occur with any infusion, including a first infusion, and generally manifest within 2 hours of the infusion. However, delayed hypersensitivity reactions have also been reported. (5.1)
- KRYSTEXXA should be administered in healthcare settings and by healthcare providers prepared to manage anaphylaxis and infusion reactions. (5.1, 5.2)
- Pre-medicate with antihistamines and corticosteroids and closely monitor for anaphylaxis for an appropriate period of time after administration of KRYSTEXXA. (5.1, 5.2)
- Monitor serum uric acid levels prior to each infusion and discontinue treatment if levels increase to above 6 mg/dL, particularly when 2 consecutive levels above 6 mg/dL are observed. (5.2)
- Screen patients at risk for G6PD deficiency prior to starting KRYSTEXXA. Hemolysis and methemoglobinemia have been reported with KRYSTEXXA in patients with G6PD deficiency. KRYSTEXXA is contraindicated in patients with G6PD deficiency. (4, 5.3)

#### RECENT MAJOR CHANGES

Dosage and Administration (2.1, 2.3)

8/2025

#### INDICATIONS AND USAGE

KRYSTEXXA® (pegloticase) is a PEGylated uric acid specific enzyme indicated for the treatment of chronic gout in adult patients refractory to conventional therapy. (1)

##### Limitations of Use:

KRYSTEXXA is not recommended for the treatment of asymptomatic hyperuricemia. (1)

#### DOSAGE AND ADMINISTRATION

##### Recommended Dosage

- The recommended dosage is KRYSTEXXA 8 mg every two weeks given as an intravenous infusion, co-administered with weekly methotrexate 15 mg orally. KRYSTEXXA alone may be used in patients for whom methotrexate is contraindicated or not clinically appropriate. (2.2)
- Methotrexate with folic acid or folinic acid supplementation should be initiated at least 4 weeks prior to initiating, and throughout treatment with KRYSTEXXA. (2.2)
- Discontinue oral urate-lowering agents before starting KRYSTEXXA. (2.1)
- Monitor serum uric acid levels before each infusion. (2.1)
- Pre-medicate patients with antihistamines and corticosteroids. (2.1, 5.1, 5.2)

##### Preparation and Administration

- Do not administer as an intravenous push or bolus. (2.1)
- KRYSTEXXA injection is supplied as a Ready-to-Use (with hanger label) single-dose vial or a To-be-Diluted single-dose vial. (2.3)
- See full prescribing information for information on preparation and administration for each vial presentation. (2.1, 2.2, 2.3)

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## **DOSAGE FORMS AND STRENGTHS**

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- Injection: Ready-to-Use 8 mg/50 mL (0.16 mg/mL) in a single-dose vial (3)
- Injection: To-be-Diluted 8 mg/mL in a single-dose vial (3)

## **CONTRAINDICATIONS**

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- Patients with glucose-6-phosphate dehydrogenase (G6PD) deficiency. (4)
- Patients with history of serious hypersensitivity reactions, including anaphylaxis, to KRYSTEXXA or any of its components. (4)

## **WARNINGS AND PRECAUTIONS**

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- Anaphylaxis: Anaphylaxis may occur with any KRYSTEXXA infusion. Pre-medicate and monitor patients. (5.1)
- Infusion Reactions: Infusion reactions occurred in patients treated with KRYSTEXXA. Pre-medicate and monitor patients. (5.2)
- G6PD Deficiency Associated Hemolysis and Methemoglobinemia: Screen patients at risk for G6PD deficiency. Do not administer KRYSTEXXA to patients with G6PD deficiency. (5.3)
- Gout Flares: Gout flare prophylaxis is recommended for at least the first 6 months of KRYSTEXXA therapy. (5.4)
- Congestive Heart Failure: Congestive heart failure exacerbation may occur. Monitor patients closely following infusion. (5.5)

## **ADVERSE REACTIONS**

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- Co-administration with methotrexate: The most common adverse reactions ( $\geq 5\%$  of patients) are gout flares, arthralgia, COVID-19, nausea and fatigue. (6.1)
- KRYSTEXXA alone: The most common adverse reactions ( $\geq 5\%$  of patients) are gout flares, infusion reactions, nausea, contusion or ecchymosis, nasopharyngitis, constipation, chest pain, anaphylaxis and vomiting. (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Amgen Inc. at 1-800-77-AMGEN (1-800-772-6436) or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).  
See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**

**Revised: 8/2025**

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## **FULL PRESCRIBING INFORMATION**

**WARNING: ANAPHYLAXIS and INFUSION REACTIONS, G6PD DEFICIENCY ASSOCIATED HEMOLYSIS and METHEMOGLOBINEMIA**

- Anaphylaxis and infusion reactions have been reported to occur during and after administration of KRYSTEXXA. (5.1, 5.2)
- Anaphylaxis may occur with any infusion, and generally manifests within 2 hours of the infusion. However, delayed hypersensitivity reactions have also been reported. (5.1)
- KRYSTEXXA should be administered in healthcare settings and by healthcare providers prepared to manage anaphylaxis and infusion reactions. (5.1, 5.2)
- Premedicate with antihistamines and corticosteroids and closely monitor for anaphylaxis for an appropriate period of time after administration of KRYSTEXXA. (5.1, 5.2)
- Monitor serum uric acid levels prior to each infusion and discontinue treatment if levels increase to above 6 mg/dL, particularly when 2 consecutive levels above 6 mg/dL are observed. (5.2)
- Screen patients at risk for G6PD deficiency prior to starting KRYSTEXXA. Hemolysis and methemoglobinemia have been reported with KRYSTEXXA in patients with G6PD deficiency. KRYSTEXXA is contraindicated in patients with G6PD deficiency. (4, 5.3)

## **1 INDICATIONS AND USAGE**

KRYSTEXXA<sup>®</sup> (pegloticase) is indicated, for the treatment of chronic gout in adult patients refractory to conventional therapy.

Gout refractory to conventional therapy occurs in patients who have failed to normalize serum uric acid and whose signs and symptoms are inadequately controlled with xanthine oxidase inhibitors at the maximum medically appropriate dose or for whom these drugs are contraindicated.

### Limitations of Use:

KRYSTEXXA is not recommended for the treatment of asymptomatic hyperuricemia.

## **2 DOSAGE AND ADMINISTRATION**

### **2.1 Important Administration Instructions**

#### Precautions Prior to Treatment

It is recommended that before starting KRYSTEXXA patients discontinue oral urate-lowering medications and not institute therapy with oral urate-lowering agents while patients are on KRYSTEXXA therapy.

**Monitoring Therapy:** The risk of infusion reactions, including anaphylaxis, is higher in patients who have lost therapeutic response. Monitor serum uric acid levels prior to each infusion and discontinue treatment if levels increase to above 6 mg/dL, particularly when 2 consecutive levels above 6 mg/dL are observed [*see Warnings and Precautions (5.1, 5.2)*].

## Infusion Reaction Precautions

KRYSTEXXA should be administered in a healthcare setting by healthcare providers prepared to manage infusion reactions, including anaphylaxis. Observe patients for an appropriate period of time after administration [*see Warnings and Precautions (5.1, 5.2)*].

Patients should receive pre-infusion medications (e.g., antihistamines, corticosteroids), to minimize the risk of infusion reactions, including anaphylaxis.

If an infusion reaction occurs during the administration of KRYSTEXXA, the infusion may be slowed, or stopped and restarted at a slower rate, at the discretion of the physician. Since infusion reactions can occur after completion of infusion, observation of patients for approximately an hour post-infusion should be considered [*see Warnings and Precautions (5.2), Adverse Reactions (6.1)*].

## Administration Precautions

**Do not administer KRYSTEXXA as an intravenous push or bolus.** KRYSTEXXA should only be administered by intravenous infusion. An infusion pump may be used for the Ready-to-Use vial. Gravity feed, syringe-type pump, or infusion pump may be used for the To-Be-Diluted vial [*see Dosage and Administration (2.3)*].

## **2.2 Recommended Dosage and Administration**

The recommended dosage is KRYSTEXXA 8 mg given as an intravenous infusion every two weeks, co-administered with weekly oral methotrexate 15 mg and folic acid or folinic acid supplementation. KRYSTEXXA alone may be used in patients for whom methotrexate is contraindicated or not clinically appropriate.

If co-administering with methotrexate, start weekly methotrexate and folic acid or folinic acid supplementation at least 4 weeks prior to initiating, and throughout treatment with KRYSTEXXA [*see Clinical Studies (14)*]. Refer to the Full Prescribing Information for methotrexate.

The optimal treatment duration with KRYSTEXXA has not been established.

## **2.3 Preparation and Administration Instructions**

KRYSTEXXA injection is supplied as either a Ready-to-Use single-dose vial (with hanger label) or a To-be-Diluted single-dose vial.

Ready-to-Use KRYSTEXXA 8 mg/50 mL (0.16 mg/mL) single-dose vial (with hanger label)

Step 1: Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Do not use vial if either is present.

Step 2: Allow the Ready-to-Use vial to reach room temperature at 20°C to 25°C (68°F to 77°F). KRYSTEXXA in a vial should never be subjected to artificial heating (e.g., hot water, microwave). Unopened vial may be stored for up to 4 hours at room temperature.

Step 3: Use appropriate aseptic technique. Insert a vented intravenous set through the septum of the vial. Once the stopper is punctured, use immediately.

Step 4: To administer, invert and hang the vial utilizing the built-in hanger label affixed to the bottom of the vial.

Step 5: Administer as an intravenous infusion over a period of no less than 120 minutes using an infusion pump. After the entire contents of the vial have been administered, flush the injection line with Sodium Chloride Injection to ensure delivery of the required dose.

#### To-be-Diluted KRYSTEXXA 8 mg/mL single-dose vial

Step 1: Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Do not use vial if either is present.

Step 2: Use appropriate aseptic technique. Withdraw 1 mL of KRYSTEXXA (To-be-Diluted) from the vial into a sterile syringe. Discard any unused portion of product remaining in the vial. Inject into a single 250 mL bag of 0.9% Sodium Chloride Injection, USP or 0.45% Sodium Chloride Injection, USP for intravenous infusion. Do not mix or dilute with other drugs.

Step 3: Gently invert the infusion bag containing the dilute KRYSTEXXA solution a number of times to ensure thorough mixing. Do not shake.

Step 4: Before administration, allow the diluted solution of KRYSTEXXA to reach room temperature. KRYSTEXXA in a vial or in an intravenous infusion fluid should never be subjected to artificial heating (e.g., hot water, microwave).

KRYSTEXXA diluted in infusion bags is stable for 4 hours at 2°C to 8°C (36°F to 46°F) and at room temperature at 20°C to 25°C (68°F to 77°F). However, it is recommended that diluted solutions be stored under refrigeration, not frozen, protected from light, and used within 4 hours of dilution [*see How Supplied/Storage and Handling (16)*].

Step 5: Administer as an intravenous infusion over 120 minutes using gravity feed, syringe-type pump, or infusion pump.

### **3 DOSAGE FORMS AND STRENGTHS**

KRYSTEXXA is a clear and colorless solution, containing 8 mg of pegloticase expressed as concentrations of uricase protein available as:

- Injection: Ready-to-Use 8 mg/50 mL (0.16 mg/mL) in a single-dose vial (with hanger label) [*see Dosage and Administration (2.3)*].
- Injection: To-be-Diluted 8 mg/mL in a single-dose vial [*see Dosage and Administration (2.3)*].

### **4 CONTRAINDICATIONS**

KRYSTEXXA is contraindicated in:

- Patients with glucose-6-phosphate dehydrogenase (G6PD) deficiency [*see Warnings and Precautions (5.3)*].
- Patients with history of serious hypersensitivity reactions, including anaphylaxis, to KRYSTEXXA or any of its components.

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Anaphylaxis

In a 52-week controlled trial, which evaluated KRYSTEXXA co-administered with methotrexate compared to KRYSTEXXA alone, subjects were pre-treated with standardized infusion reaction prophylaxis and were discontinued from treatment with KRYSTEXXA if serum uric acid levels increased to above 6 mg/dL at 2 consecutive visits after the initiation of KRYSTEXXA therapy to reduce the risk of anaphylaxis. One subject randomized to the group treated with KRYSTEXXA co-administered with methotrexate (1%) experienced anaphylaxis during the first infusion and no subjects experienced anaphylaxis in the group treated with KRYSTEXXA alone [see *Adverse Reactions (6.1)*, *Clinical Studies (14)*].

During pre-marketing clinical trials with KRYSTEXXA alone, KRYSTEXXA was not discontinued following 2 consecutive serum uric acid levels above 6 mg/dL. Anaphylaxis was reported with a frequency of 6.5% (8/123) of subjects treated with KRYSTEXXA every 2 weeks and 4.8% (6/126) for the every 4-week dosing regimen. There were no cases of anaphylaxis in subjects receiving placebo. Anaphylaxis generally occurred within 2 hours after treatment.

Diagnostic criteria of anaphylaxis were skin or mucosal tissue involvement, and, either airway compromise, and/or reduced blood pressure with or without associated symptoms, and a temporal relationship to KRYSTEXXA or placebo injection with no other identifiable cause. Manifestations included wheezing, peri-oral or lingual edema, or hemodynamic instability, with or without rash or urticaria, nausea or vomiting. Cases occurred in patients being pre-treated with one or more doses of an oral antihistamine, an intravenous corticosteroid and/or acetaminophen. This pre-treatment may have blunted or obscured symptoms or signs of anaphylaxis and therefore the reported frequency may be an underestimate.

KRYSTEXXA should be administered in a healthcare setting by healthcare providers prepared to manage anaphylaxis. Patients should be pre-treated with antihistamines and corticosteroids. Anaphylaxis may occur with any infusion, including a first infusion, and generally manifests within 2 hours of the infusion. However, delayed type hypersensitivity reactions have also been reported. Patients should be closely monitored for an appropriate period of time for anaphylaxis after administration of KRYSTEXXA. Patients should be informed of the symptoms and signs of anaphylaxis and instructed to seek immediate medical care should anaphylaxis occur after discharge from the healthcare setting.

The risk of anaphylaxis is higher in patients whose uric acid level increases to above 6 mg/dL, particularly when 2 consecutive levels above 6 mg/dL are observed. Monitor serum uric acid levels prior to infusions and discontinue treatment if levels increase to above 6 mg/dL. Because of the possibility that concomitant use of oral urate-lowering therapy and KRYSTEXXA may potentially blunt the rise of serum uric acid levels, it is recommended that before starting KRYSTEXXA patients discontinue oral urate-lowering medications and not institute therapy with oral urate-lowering agents while taking KRYSTEXXA.

### 5.2 Infusion Reactions

In a 52-week, controlled trial which evaluated KRYSTEXXA co-administered with

methotrexate compared to KRYSTEXXA alone [see *Adverse Reactions (6.1), Clinical Studies (14)*], subjects were pre-treated with standardized infusion reaction prophylaxis and were discontinued from treatment with KRYSTEXXA if serum uric acid levels increased to above 6 mg/dL at 2 consecutive visits after the initiation of KRYSTEXXA therapy to reduce the risk of infusion reactions. Infusion reactions were reported in 4% of subjects in the KRYSTEXXA co-administered with methotrexate group compared to 31% of subjects treated with KRYSTEXXA alone experienced infusion reactions [see *Adverse Reactions (6.1), Clinical Studies (14)*]. In both treatment groups, the majority of infusion reactions occurred at the first or second KRYSTEXXA infusion and during the time of infusion. Manifestations of these infusion reactions were similar to that observed in the pre-marketing trials.

During pre-marketing 24-week controlled clinical trials with KRYSTEXXA alone, KRYSTEXXA was not discontinued following 2 consecutive serum uric acid levels above 6 mg/dL. Infusion reactions were reported in 26% of subjects treated with KRYSTEXXA 8 mg every 2 weeks, and 41% of subjects treated with KRYSTEXXA 8 mg every 4 weeks, compared to 5% of subjects treated with placebo. These infusion reactions occurred in subjects being pre-treated with an oral antihistamine, intravenous corticosteroid and/or acetaminophen. This pre-treatment may have blunted or obscured symptoms or signs of infusion reactions and therefore the reported frequency may be an underestimate.

Manifestations of these reactions included urticaria (frequency of 10.6%), dyspnea (frequency of 7.1%), chest discomfort (frequency of 9.5%), chest pain (frequency of 9.5%), erythema (frequency of 9.5%), and pruritus (frequency of 9.5%). These manifestations overlap with the symptoms of anaphylaxis, but in a given patient did not occur together to satisfy the clinical criteria for diagnosing anaphylaxis. Infusion reactions are thought to result from release of various mediators, such as cytokines. Infusion reactions occurred at any time during a course of treatment with approximately 3% occurring with the first infusion, and approximately 91% occurred during the time of infusion.

KRYSTEXXA should be administered in a healthcare setting by healthcare providers prepared to manage infusion reactions. Patients should be pre-treated with antihistamines and corticosteroids. KRYSTEXXA should be infused slowly over no less than 120 minutes. In the event of an infusion reaction, the infusion should be slowed, or stopped and restarted at a slower rate.

The risk of infusion reaction is higher in patients whose uric acid level increases to above 6 mg/dL, particularly when 2 consecutive levels above 6 mg/dL are observed. Monitor serum uric acid levels prior to infusions and discontinue treatment if levels increase to above 6 mg/dL. Because of the possibility that concomitant use of oral urate-lowering therapy and KRYSTEXXA may potentially blunt the rise of serum uric acid levels, it is recommended that before starting KRYSTEXXA patients discontinue oral urate-lowering medications and not institute therapy with oral urate-lowering agents while taking KRYSTEXXA.

### **5.3 G6PD Deficiency Associated Hemolysis and Methemoglobinemia**

Life threatening hemolytic reactions and methemoglobinemia have been reported with KRYSTEXXA in patients with glucose-6-phosphate dehydrogenase (G6PD) deficiency. Because of the risk of hemolysis and methemoglobinemia, do not administer KRYSTEXXA to patients with G6PD deficiency [see *Contraindications (4)*]. Screen patients



at risk for G6PD deficiency prior to starting KRYSTEXXA. For example, patients of African, Mediterranean (including Southern European and Middle Eastern), and Southern Asian ancestry are at increased risk for G6PD deficiency.

## 5.4 Gout Flares

In a 52-week, randomized, double-blind trial which evaluated KRYSTEXXA co-administered with methotrexate compared to KRYSTEXXA alone, subjects were administered gout flare prophylaxis similar to that in the pre-marketing, placebo-controlled trials. The percentages of subjects with any flare for the first 3 months were 66% and 69% for the group treated with KRYSTEXXA co-administered with methotrexate and the group treated with KRYSTEXXA alone, respectively. In the group treated with KRYSTEXXA co-administered with methotrexate, the percentages of subjects with any flare for the subsequent 3-month increments of treatment were 27% during Month 6, 8% during Month 9 and 9% during Month 12. In the group treated with KRYSTEXXA alone, the percentages of patients with any flare were 14% during Month 6, 9% during Month 9 and 21% during Month 12.

During pre-marketing, 24-week controlled clinical trials with KRYSTEXXA alone, the frequencies of gout flares were high in all treatment groups, but more so with KRYSTEXXA treatment during the first 3 months of treatment, and decreased in the subsequent 3 months of treatment. The percentages of subjects with any flare for the first 3 months were 74%, 81%, and 51%, for KRYSTEXXA 8 mg every 2 weeks, KRYSTEXXA 8 mg every 4 weeks, and placebo, respectively. The percentages of subjects with any flare for the subsequent 3 months were 41%, 57%, and 67%, for KRYSTEXXA 8 mg every 2 weeks, KRYSTEXXA 8 mg every 4 weeks, and placebo, respectively. Subjects received gout flare prophylaxis with colchicine and/or nonsteroidal anti-inflammatory drugs (NSAIDs) starting at least one week before receiving KRYSTEXXA.

Gout flares may occur after initiation of KRYSTEXXA. An increase in gout flares is frequently observed upon initiation of anti-hyperuricemic therapy, due to changing serum uric acid levels resulting in mobilization of urate from tissue deposits. Gout flare prophylaxis with a non-steroidal anti-inflammatory drug (NSAID) or colchicine is recommended starting at least 1 week before initiation of KRYSTEXXA therapy and lasting at least 6 months, unless medically contraindicated or not tolerated. KRYSTEXXA does not need to be discontinued because of a gout flare. The gout flare should be managed concurrently as appropriate for the individual patient [*see Dosage and Administration (2)*].

## 5.5 Congestive Heart Failure

KRYSTEXXA has not been formally studied in patients with congestive heart failure, but some subjects in the pre-marketing, 24-week controlled clinical trials experienced exacerbation of congestive heart failure. Two cases of congestive heart failure exacerbation occurred during the trials in subjects receiving treatment with KRYSTEXXA 8 mg every 2 weeks. No cases were reported in placebo-treated subjects. Four subjects had exacerbations of pre-existing congestive heart failure while receiving KRYSTEXXA 8 mg every 2 weeks during the open-label extension study.

Exercise caution when using KRYSTEXXA in patients who have congestive heart failure and monitor patients closely following infusion.

## 5.6 Re-treatment with KRYSTEXXA

No controlled trial data are available on the safety and efficacy of re-treatment with KRYSTEXXA after stopping treatment for longer than 4 weeks. Due to the immunogenicity of KRYSTEXXA, patients receiving re-treatment may be at increased risk of anaphylaxis and infusion reactions. Therefore, patients receiving re-treatment after a drug-free interval should be monitored carefully [see *Adverse Reactions* (6.2)].

## 6 ADVERSE REACTIONS

The following serious adverse reactions are discussed in greater detail in other sections of the label:

- Anaphylaxis [see *Warnings and Precautions* (5.1)]
- Infusion Reactions [see *Warnings and Precautions* (5.2)]
- G6PD Deficiency Associated Hemolysis and Methemoglobinemia [see *Warnings and Precautions* (5.3)]
- Gout Flares [see *Warnings and Precautions* (5.4)]
- Congestive Heart Failure [see *Warnings and Precautions* (5.5)]

### 6.1 Clinical Trials Experience

Because clinical studies are conducted under widely varying and controlled conditions, adverse reaction rates observed in clinical studies of a drug cannot be directly compared to rates in the clinical studies of another drug, and may not predict the rates observed in a broader patient population in clinical practice.

#### Co-administration with Methotrexate

A 52-week, randomized, double-blind trial was conducted in adult subjects with chronic gout refractory to conventional therapy to evaluate administration of KRYSTEXXA 8 mg every 2 weeks co-administered with weekly administration of oral methotrexate 15 mg, compared to KRYSTEXXA alone. In this trial, subjects who were able to tolerate two weeks on methotrexate 15 mg were then randomized to receive four additional weeks on either methotrexate 15 mg or matching placebo prior to initiating KRYSTEXXA therapy. A total of 152 subjects were randomized, and of these, 145 subjects completed the 4-week methotrexate run-in period and received KRYSTEXXA (96 subjects received KRYSTEXXA co-administered with methotrexate and 49 received KRYSTEXXA plus placebo) during the treatment period. All subjects received pre-treatment with an oral antihistamine, intravenous corticosteroid and acetaminophen. These subjects were between the ages of 24 and 83 years (average 55 years); 135 subjects were male and 17 and were female; 105 subjects were White/Caucasian, 22 were Black/African American, 14 were Asian, 5 were Native Hawaiian/Other Pacific Islander and 5 identified as Other; 28 were Hispanic or Latino. Common co-morbid conditions among the enrolled subjects included hypertension (63%), osteoarthritis (25%), hyperlipidemia (24%), gastroesophageal reflux disease (22%), obesity (20%), type 2 diabetes (18%) and depression (16%). Subjects with an eGFR <40 mL/min/1.73 m<sup>2</sup> were excluded from this trial.

The most commonly reported adverse reaction during the methotrexate pre-treatment periods was gout flare. The most commonly reported adverse reactions that occurred in ≥ 5% in either treatment group during the KRYSTEXXA co-administered with methotrexate or KRYSTEXXA alone period are provided in Table 1.

**Table 1. Adverse Reactions Occurring in 5% or More of Subjects in Either the KRYSTEXXA Co-administered with Methotrexate or KRYSTEXXA Alone Treatment Period**

<b>Adverse Reaction</b>	<b>KRYSTEXXA with Methotrexate (N = 96) n (%)</b>	<b>KRYSTEXXA Alone (N = 49) n (%)</b>
Gout flare	64 (67%)	35 (71%)
Arthralgia	13 (14%)	5 (10%)
COVID-19	9 (9%)	3 (6%)
Nausea	5 (5%)	6 (12%)
Fatigue	5 (5%)	2 (4%)
Infusion reaction	4 (4%)*	15 (31%)
Pain in extremity	1 (1%)	3 (6%)
Hypertension	1 (1%)	3 (6%)
Vomiting	0	4 (8%)

\* Included one case of anaphylaxis.

### KRYSTEXXA ALONE

The data described below reflect exposure to KRYSTEXXA in subjects with chronic gout refractory to conventional therapy in two replicate randomized, placebo-controlled, double-blind 24-week clinical trials: 85 subjects were treated with KRYSTEXXA 8 mg every 2 weeks; 84 subjects were treated with KRYSTEXXA 8 mg every 4 weeks; and 43 subjects were treated with placebo. These subjects were between the ages of 23 and 89 years (average 55 years); 173 subjects were male and 39 were female; and 143 patients were White/Caucasian, 27 were Black/African American, 24 were Hispanic/Latino and 18 were all other ethnicities. Common co-morbid conditions among the enrolled subjects included hypertension (72%), dyslipidemia (49%), chronic kidney disease (28%), diabetes (24%), coronary artery disease (18%), arrhythmia (16%), and cardiac failure/left ventricular dysfunction (12%).

During the pre-marketing placebo-controlled clinical trials, the most commonly reported adverse reactions that occurred in greater than or equal to 5% of subjects treated with KRYSTEXXA 8 mg every 2 weeks are provided in Table 2.

**Table 2. Adverse Reactions Occurring in 5% or More of Subjects Treated with KRYSTEXXA Compared to Placebo**

<b>Adverse Reaction</b>	<b>KRYSTEXXA 8 mg every 2 weeks (N = 85) n* (%)</b>	<b>Placebo (N = 43) n (%)</b>
Gout flare	65 (77%)	35 (81%)
Infusion reaction	22 (26%)	2 (5%)
Nausea	10 (12%)	1 (2%)
Contusion <sup>†</sup> or Ecchymosis <sup>†</sup>	9 (11%)	2 (5%)

Nasopharyngitis	6 (7%)	1 (2%)
Constipation	5 (6%)	2 (5%)
Chest Pain	5 (6%)	1 (2%)
Anaphylaxis	4 (5%)	0 (0%)
Vomiting	4 (5%)	1 (2%)

\* If the same subject in a given group had more than one occurrence in the same preferred term event category, the subject was counted only once.

† Most did not occur on the day of infusion and could be related to other factors (e.g., concomitant medications relevant to contusion or ecchymosis, insulin dependent diabetes mellitus).

## 6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of KRYSTEXXA. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship.

*General disorders and administration site conditions:* asthenia, malaise, peripheral swelling

## 7 DRUG INTERACTIONS

### 7.1 Methotrexate

KRYSTEXXA 8 mg every 2 weeks has been studied in patients with chronic gout refractory to conventional therapy taking concomitant oral methotrexate 15 mg weekly [see *Clinical Studies* (14)]. Co-administration of methotrexate with KRYSTEXXA may increase pegloticase concentration compared to KRYSTEXXA alone [see *Clinical Pharmacology* (12.3)].

### 7.2 PEGylated products

Because anti-pegloticase antibodies appear to bind to the PEG portion of the drug, there may be potential for binding with other PEGylated products. The impact of anti-PEG antibodies on patients' responses to other PEG-containing therapeutics is unknown.

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Risk Summary

There are no adequate and well-controlled studies of KRYSTEXXA in pregnant women.

Based on animal reproduction studies, no structural abnormalities were observed when pegloticase was administered by subcutaneous injection to pregnant rats and rabbits during the period of organogenesis at doses up to 50 and 75 times, respectively, the maximum recommended human dose (MRHD). Decreases in mean fetal and pup body weights were observed at approximately 50 and 75 times the MRHD, respectively [see *Data*].

All pregnancies have a background risk of birth defect, loss or other adverse outcomes. In the US general population, the estimated background risk of major birth defects and miscarriage in clinical recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

## Data

### Animal Data

In 2 separate embryo-fetal developmental studies, pregnant rats and rabbits received pegloticase during the period of organogenesis at doses up to approximately 50 and 75 times the MRHD, respectively (on a mg/m<sup>2</sup> basis at maternal doses up to 40 and 30 mg/kg twice weekly, in rats and rabbits, respectively). No evidence of structural abnormalities was observed in rats or rabbits. However, decreases in mean fetal and pup body weights were observed at approximately 50 and 75 times the MRHD in rats and rabbits, respectively (on a mg/m<sup>2</sup> basis at maternal doses up to 40 and 30 mg/kg every other day, in rats and rabbits, respectively). No effects on mean fetal body weights were observed at approximately 10 and 25 times the MRHD in rats and rabbits, respectively (on a mg/m<sup>2</sup> basis at maternal doses up to 10 mg/kg twice weekly in both species).

## **8.2 Lactation**

### Risk Summary

It is not known whether this drug is excreted in human milk. Therefore, KRYSTEXXA should not be used when breastfeeding unless the clear benefit to the mother can overcome the unknown risk to the newborn/infant.

## **8.4 Pediatric Use**

The safety and effectiveness of KRYSTEXXA in pediatric patients less than 18 years of age have not been established.

## **8.5 Geriatric Use**

Of the total number of patients treated with KRYSTEXXA 8 mg every 2 weeks in the controlled studies, 34% (29 of 85) were 65 years of age and older and 12% (10 of 85) were 75 years of age and older. No overall differences in safety or effectiveness were observed between older and younger patients, but greater sensitivity of some older individuals cannot be ruled out. No dose adjustment is needed for patients 65 years of age and older.

## **8.6 Renal Impairment**

No dose adjustment is required for patients with renal impairment. In a 52-week, randomized, double-blind trial which evaluated KRYSTEXXA co-administered with methotrexate compared to KRYSTEXXA alone, 85% of patients had chronic kidney disease based on estimated glomerular filtration rate (eGFR) of  $\geq 40$  to  $< 90$  mL/min/1.73m<sup>2</sup> at baseline. In the pre-marketing 24-week controlled clinical trials with KRYSTEXXA alone, a total of 32% (27 of 85) of subjects treated with KRYSTEXXA 8 mg every 2 weeks had a creatinine clearance of  $\leq 62.5$  mL/min. No overall differences in efficacy were observed.

## **10 OVERDOSAGE**

No reports of overdosage with KRYSTEXXA have been reported. The maximum dose that has been administered as a single intravenous dose is 12 mg as uricase protein.

Patients suspected of receiving an overdose should be monitored, and general supportive measures should be initiated as no specific antidote has been identified.

## **11 DESCRIPTION**

Pegloticase is a uric acid specific enzyme which is a PEGylated product that consists of recombinant modified mammalian urate oxidase (uricase) produced by a genetically modified strain of *Escherichia coli*. Uricase is covalently conjugated to monomethoxypoly (ethylene glycol) [mPEG] (10 kDa molecular weight). The cDNA coding for uricase is based on mammalian sequences. Each uricase subunit has a molecular weight of approximately 34 kDa per subunit. The average molecular weight of pegloticase (tetrameric enzyme conjugated to mPEG) is approximately 540 kDa.

Ready-to-Use KRYSTEXXA (pegloticase) injection 8 mg/50 mL (0.16 mg/mL) single-dose vial is supplied as a sterile, preservative-free, clear and colorless solution intended for intravenous infusion and does not require further dilution. Each 8 mg/50 mL (0.16 mg/mL) single-dose vial contains 50 mL of deliverable volume including 8 mg of uricase protein (conjugated to 24 mg of 10 kDa mPEG), Disodium Hydrogen Phosphate Heptahydrate (109 mg), Sodium Chloride (438.5 mg), Sodium Dihydrogen Phosphate Monohydrate (13mg), and Water for Injection to deliver 8 mg of pegloticase (as uricase protein).

To-be-Diluted KRYSTEXXA (pegloticase) injection 8 mg/mL single-dose vial is supplied as a sterile, preservative-free, clear and colorless solution intended for intravenous infusion after dilution. KRYSTEXXA (pegloticase) concentrations are expressed as concentrations of uricase protein. Each 8 mg/mL single-dose vial contains 1 mL of deliverable volume including 8 mg of uricase protein (conjugated to 24 mg of 10 kDa mPEG), Disodium Hydrogen Phosphate Dihydrate (2.18 mg), Sodium Chloride (8.77 mg), Sodium Dihydrogen Phosphate Dihydrate (0.43 mg), and Water for Injection to deliver 8 mg of pegloticase (as uricase protein).

## **12 CLINICAL PHARMACOLOGY**

### **12.1 Mechanism of Action**

KRYSTEXXA is a uric acid specific enzyme which is a recombinant uricase and achieves its therapeutic effect by catalyzing the oxidation of uric acid to allantoin, thereby lowering serum uric acid. Allantoin is an inert and water-soluble purine metabolite; it is readily eliminated, primarily by renal excretion.

### **12.2 Pharmacodynamics**

Approximately 24 hours following the first dose of KRYSTEXXA, mean plasma uric acid levels for subjects in the KRYSTEXXA groups were 0.7 mg/dL for the KRYSTEXXA 8 mg every 2 weeks group. In comparison, the mean plasma uric acid level for the placebo group was 8.2 mg/dL.

In a single-dose, dose-ranging trial, following 1-hour intravenous infusions of 0.5, 1, 2, 4, 8 or 12 mg of pegloticase in 24 patients with symptomatic gout (n = 4 subjects/dose group), plasma uric acid decreased with increasing pegloticase dose or concentrations. The duration of suppression of plasma uric acid appeared to be positively associated with pegloticase dose. Sustained decrease in plasma uric acid below the solubility concentration of 6 mg/dL for more than 300 hours was observed with doses of 8 mg and 12 mg.

### **12.3 Pharmacokinetics**

Pegloticase levels were determined in serum based on measurements of uricase enzyme activity.

Following single intravenous infusions of 0.5 mg to 12 mg pegloticase in 23 patients with symptomatic gout, maximum serum concentrations of pegloticase increased in proportion to the dose administered.

The population pharmacokinetic analysis showed that age, sex, weight, and creatinine clearance did not influence the pharmacokinetics of pegloticase. Significant covariates impacting pegloticase pharmacokinetics were body surface area and anti-pegloticase antibodies.

#### Special Populations

##### *Pediatric Patients*

The pharmacokinetics of pegloticase has not been studied in children and adolescents.

##### *Patients with Renal or Hepatic Impairment*

No formal studies were conducted to examine the effects of either renal or hepatic impairment on pegloticase pharmacokinetics. eGFR was not a significant covariate on pegloticase pharmacokinetics.

#### Drug Interactions

Co-administration of methotrexate with KRYSTEXXA decreased anti-pegloticase antibody incidence rate and titers compared to KRYSTEXXA alone, therefore increased pegloticase exposure levels. In patients with chronic gout refractory to conventional therapy receiving KRYSTEXXA 8 mg every 2 weeks co-administered with weekly administration of oral methotrexate 15 mg, higher steady-state peak and trough concentrations (2.65 µg/mL and 1.13 µg/mL, respectively) of pegloticase were observed compared to when KRYSTEXXA is given alone (steady-state peak and trough concentrations at 2.13 µg/mL and 0.59 µg/mL, respectively).

### **12.6 Immunogenicity**

As with all therapeutic proteins, there is a potential for immunogenicity. The observed incidence of antibody positivity in an assay is highly dependent on several factors including assay sensitivity and specificity and assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, the comparison of the incidence of antibodies to pegloticase with the incidence of antibodies to other products may be misleading.

In a 52-week, randomized, double-blind trial which evaluated KRYSTEXXA co-

administered with methotrexate compared to KRYSTEXXA alone, approximately 26% of patients had pre-existing antibodies to pegloticase. Patients with an increase in titer from baseline or who were negative at baseline and developed an anti-pegloticase response at one or more post dose time points was 30% and 51%, for the KRYSTEXXA co-administered with methotrexate and KRYSTEXXA alone treatment groups, respectively. Patients with higher antibody titers were more likely to have faster clearance and lower efficacy.

During pre-marketing 24-week controlled clinical trials with KRYSTEXXA alone, anti-pegloticase antibodies developed in 92% of patients treated with KRYSTEXXA every 2 weeks, and 28% for placebo. Anti-PEG antibodies were also detected in 42% of patients treated with KRYSTEXXA. High anti-pegloticase antibody titer was associated with a failure to maintain pegloticase-induced normalization of uric acid. The impact of anti-PEG antibodies on patients' responses to other PEG-containing therapeutics is unknown.

There was a higher incidence of infusion reactions in patients with high anti-pegloticase antibody titer: 53% (16 of 30) in the KRYSTEXXA every 2 weeks group compared to 6% in patients who had undetectable or low antibody titers.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

Long-term animal studies have not been performed to evaluate the carcinogenic potential of pegloticase.

The genotoxic potential of pegloticase has not been evaluated.

There was no evidence of impairment on fertility at pegloticase doses up to 40 mg/kg (approximately 50 times the MRHD on mg/m<sup>2</sup> basis) every other day in rats.

### **13.2 Animal Toxicology and/or Pharmacology**

Pegloticase at similar to and higher than the maximum recommended human dose (MRHD) on a plasma Area Under Curve (AUC) basis [at intravenous (IV) doses of  $\geq 0.4$  mg/kg in dogs] caused cytoplasmic vacuoles in multiple organs, and edema and histiocyte infiltration in the aortic outflow tract in dogs. Organs with cytoplasmic vacuoles included the spleen, adrenal gland, liver, heart, duodenum, and jejunum. Vacuoles in the spleen, adrenal glands, and heart persisted after a 1-year recovery period at pegloticase doses ( $\geq 1.5$  mg/kg in dogs) approximately 5 times the MRHD, but were absent at a dose similar to the MRHD. Vacuoles in the liver, duodenum, and jejunum persisted after a 3-month recovery period at a pegloticase dose (10 mg/kg in dogs) approximately 30 times the MRHD, but were absent at doses ( $\leq 1.5$  mg/kg) approximately 5 times and similar to the MRHD. The edema and histiocyte infiltration in the aortic outflow tract was absent after recovery periods of 6 and 12 months, respectively.

Vacuoles in the spleen, liver, duodenum, and jejunum were within macrophages and most likely represented phagocytic removal of pegloticase from the circulation. However, the vacuolated cells in the heart and adrenal gland did not stain as macrophages. In the aortic outflow tract of the heart, vacuoles were in the cytoplasm of endothelial cells in the intimal lining of the aorta. In the adrenal gland, vacuoles were



located within cortical cells in the zona reticularis and zona fasciculata. The clinical significance of these findings and the functional consequences are unknown.

## 14 CLINICAL STUDIES

### Co-administration with Methotrexate

A 52-week, randomized, double-blind trial was conducted in adult subjects with chronic gout refractory to conventional therapy, to evaluate administration of KRYSTEXXA 8 mg every 2 weeks co-administered with weekly administration of methotrexate 15 mg, compared to KRYSTEXXA alone: Trial 1 (NCT03994731). In this trial, patients were naïve to KRYSTEXXA therapy. Subjects who were able to tolerate two weeks on oral methotrexate 15 mg were then randomized to receive four additional weeks on either methotrexate 15 mg or matching placebo prior to initiating KRYSTEXXA therapy in a 2:1 ratio. Subjects were pre-treated with a standardized infusion reaction prophylaxis regimen consisting of an oral fexofenadine, acetaminophen and intravenous methylprednisolone prior to each KRYSTEXXA infusion. Methotrexate or placebo was continued weekly throughout the KRYSTEXXA treatment period with daily oral folic acid in order to evaluate the immunomodulatory effect of methotrexate to attenuate development of anti-drug antibodies.

Entry criteria for subjects to be eligible for this trial were: baseline serum uric acid  $\geq 7$  mg/dL and inability to maintain serum uric acid  $< 6$  mg/dL on other urate-lowering therapy, intolerable side effects associated with current urate-lowering therapy, and/or presence of clinically evident tophaceous deposits.

The primary endpoint was the proportion of Month 6 responders, where a responder was defined as achieving and maintaining serum uric acid less than 6 mg/dL for at least 80% of the time during Month 6. The proportion of Month 12 responders was a key secondary endpoint. A significantly greater proportion of patients receiving KRYSTEXXA co-administered with methotrexate compared to KRYSTEXXA alone achieved both the primary and secondary endpoints (see Table 3).

**Table 3. Serum Uric Acid  $< 6$  mg/dL for at Least 80% of the Time During Month 6 and During Month 12 in Subjects Administered KRYSTEXXA Co-administered with Methotrexate**

	Treatment Group	
	KRYSTEXXA with Methotrexate (N = 100)	KRYSTEXXA Alone (N = 52)
<b>Trial 1</b>		
<b>Number, % of Patients Who Met Response Criteria During Month 6</b>	71 (71%)	20 (39%)
<b>Difference* (95% Confidence Interval)</b>	32% (16%, 48%)	
<b>P-Value</b>	$< 0.0001$	
<b>Number, % of Patients Who Met Response Criteria During Month 12</b>	60 (60%)	16 (31%)

<b>Difference* (95% Confidence Interval)</b>	29% (13%, 45%)	
<b>P-Value</b>	0.0003	

\* Difference and its corresponding 95% confidence interval (CI) based on a weighted average of the difference within each randomization stratum (tophi presence, no tophi presence) using Cochran-Mantel-Haenszel (CMH) weights.

The effect of KRYSTEXXA co-administered with methotrexate and KRYSTEXXA alone on tophi was assessed using standardized digital photography, image analysis and Central Readers blinded to treatment assignment. Approximately 53.3% (81/152) of randomized subjects had tophi at baseline (Week-6) that were confirmed by digital photography. Of those, 54% (28/52) in the KRYSTEXXA co-administered with methotrexate group and 31% (9/29) in the KRYSTEXXA alone group achieved a complete response at Month 12 (defined as 100% resolution of at least one target tophus, no new tophi appear and no single tophus showing progression). The difference between the two treatment groups was statistically significant (22.8%, 95% CI: 1.2%, 44.4%).

### KRYSTEXXA ALONE

The efficacy of KRYSTEXXA was studied in adult patients with chronic gout refractory to conventional therapy in two replicate, multicenter, randomized, double-blind, placebo-controlled studies of six months duration: Trial 2 and Trial 3. Patients were randomized to receive KRYSTEXXA 8 mg every 2 weeks or every 4 weeks or placebo in a 2:2:1 ratio.

Studies were stratified for the presence of tophi. Seventy-one percent (71%) of subjects had baseline tophi. All subjects were prophylaxed with an oral antihistamine, intravenous corticosteroid and acetaminophen. Subjects also received prophylaxis for gout flares with non-steroidal anti-inflammatory drugs (NSAIDs) or colchicine, or both, beginning at least one week before KRYSTEXXA treatment unless medically contraindicated or not tolerated. Subjects who completed the randomized clinical trials were eligible to enroll in a 2-year open label extension study.

Entry criteria for subjects to be eligible for the trials were: baseline serum uric acid of at least 8 mg/dL; had symptomatic gout with at least 3 gout flares in the previous 18 months or at least 1 gout tophus or gouty arthritis; and had a self-reported medical contraindication to allopurinol or medical history of failure to normalize uric acid (to less than 6 mg/dL) with at least 3 months of allopurinol treatment at the maximum medically appropriate dose.

The mean age of study subjects was 55 years (23-89); 82% were male, mean body mass index (BMI) was 33 kg/m<sup>2</sup>, mean duration of gout was 15 years, and mean baseline serum uric acid was 10 mg/dL.

To assess the efficacy of KRYSTEXXA in lowering uric acid, the primary endpoint in both trials was the proportion of subjects who achieved plasma uric acid (PUA) less than 6 mg/dL for at least 80% of the time during Month 3 and Month 6. As shown in Table 4, a greater proportion of subjects treated with KRYSTEXXA every 2 weeks achieved urate-lowering to below 6 mg/dL than subjects receiving placebo. Although the 4-week regimen also demonstrated efficacy for the primary endpoint, this regimen was associated with increased frequency of anaphylaxis and infusion reactions and less efficacy with respect to tophi.

**Table 4. Plasma Uric Acid < 6 mg/dL for at Least 80% of the Time During Months 3 and 6**

<b>Treatment Group</b>	<b>N</b>	<b>Number (%) of Subjects Who Met Response Criteria</b>	<b>95% Confidence Interval*</b>	<b>P-Value†</b>
<b>Trial 2</b>				
<b>KRYSTEXXA 8 mg every 2 weeks</b>	43	20 (47%)	[32%, 61%]	<0.001
<b>KRYSTEXXA 8 mg every 4 weeks</b>	41	8 (20%)	[7%, 32%]	0.044
<b>Placebo</b>	20	0 (0%)		
<b>Trial 3</b>				
<b>KRYSTEXXA 8 mg every 2 weeks</b>	42	16 (38%)	[23%, 53%]	<0.001
<b>KRYSTEXXA 8 mg every 4 weeks</b>	43	21 (49%)	[34%, 64%]	<0.001
<b>Placebo</b>	23	0 (0%)		

Note: Based on post-hoc analyses of the clinical trial data, if KRYSTEXXA had been stopped when a patient's uric acid level rose to greater than 6 mg/dL on a single occasion, the incidence of infusion reactions would have been reduced by approximately 67%, but the success rates for the primary efficacy endpoint would have been reduced by approximately 20%. If KRYSTEXXA had been stopped after 2 consecutive uric acid levels greater than 6 mg/dL, the incidence of infusion reactions would have been half, and there would have been little change in the efficacy outcome.

\* 95% confidence interval for differences in responder rate between pegloticase group vs. placebo.

† P-value using Fisher's exact test to compare pegloticase group vs. placebo.

The effect of treatment on tophi was a secondary efficacy endpoint and was assessed using standardized digital photography, image analysis, and a Central Reader blinded to treatment assignment. Approximately 70% of subjects had tophi at baseline. A pooled analysis of data from Trial 2 and Trial 3 (NCT00325195) was performed as pre-specified in the protocols. At Month 6, the percentage of subjects who achieved a complete response (defined as 100% resolution of at least one target tophus, no new tophi appear and no single tophus showing progression) was 45%, 26%, and 8%, with KRYSTEXXA 8 mg every 2 weeks, KRYSTEXXA 8 mg every 4 weeks, and placebo, respectively. The difference between KRYSTEXXA and placebo was statistically significant for the every 2-week dosing regimen, but not for the every 4-week dosing regimen.

## **16 HOW SUPPLIED/STORAGE AND HANDLING**

### **How Supplied**

KRYSTEXXA (pegloticase) injection is supplied as a sterile, clear and colorless solution containing 8 mg of pegloticase as follows for intravenous infusion:

- One Ready-to-Use 8 mg/50 mL (0.16 mg/mL) single-dose vial (NDC 75987-058-01)

- One To-be-Diluted 8 mg/mL single-dose vial (NDC 75987-080-10)

## **Storage and Handling**

Before the preparation for use, KRYSTEXXA must be stored in the carton and maintained at all times under refrigeration between 2°C to 8°C (36°F to 46°F). **Protect from light. Do not shake or freeze.**

Do not use beyond the expiration date stamped.

## **17 PATIENT COUNSELING INFORMATION**

Advise patients to read the FDA-approved patient labeling (Medication Guide).

### **Anaphylaxis and Infusion Reactions**

- Anaphylaxis and infusion reactions can occur at any infusion while on therapy. Counsel patients on the importance of adhering to any prescribed medications, to help prevent or lessen the severity of these reactions.
- Educate patients on the signs and symptoms of anaphylaxis, including wheezing, peri-oral or lingual edema, hemodynamic instability, and rash or urticaria, nausea or vomiting.
- Educate patients on the most common signs and symptoms of an infusion reaction, including urticaria (skin rash), erythema (redness of the skin), dyspnea (difficulty breathing), flushing, chest discomfort, chest pain, and rash.
- Advise patients to seek medical care immediately if they experience any symptoms of an allergic reaction during or at any time after the infusion of KRYSTEXXA [see *Warnings and Precautions* (5.1, 5.2), *Adverse Reactions* (6.1)].
- Advise patients to discontinue any oral urate-lowering agents before starting on KRYSTEXXA and not to take any oral urate-lowering agents while on KRYSTEXXA.

### **Glucose-6-phosphate dehydrogenase (G6PD) Deficiency**

Inform patients not to take KRYSTEXXA if they have a condition known as G6PD deficiency. Explain to patients that G6PD deficiency is more frequently found in individuals of African, Mediterranean, or Southern Asian ancestry and that they may be tested to determine if they have G6PD deficiency, unless already known [see *Contraindications* (4), *Warnings and Precautions* (5.3)].

### **Gout Flares**

Explain to patients that gout flares may initially increase when starting treatment with KRYSTEXXA, and that medications to help reduce flares may need to be taken regularly for the first few months after KRYSTEXXA is started [see *Warnings and Precautions* (5.4), *Adverse Reactions* (6.1)]. Advise patients that they should not stop KRYSTEXXA therapy if they have a flare.

## **AMGEN**

### **KRYSTEXXA® (pegloticase)**

#### **Manufactured by:**

Horizon Therapeutics Ireland DAC  
Dublin, Ireland  
US License Number 2022

**Medication Guide**  
**KRYSTEXXA® (kris-TEX-a)**  
**(pegloticase)**  
**injection, for intravenous use**

Read this Medication Guide before you start receiving KRYSTEXXA and before each treatment. There may be new information. This Medication Guide does not take the place of talking with your doctor about your medical condition or treatment. Talk to your doctor if you have any questions about your treatment with KRYSTEXXA.

**What is the most important information I should know about KRYSTEXXA?**

Serious allergic reactions may happen in some people who receive KRYSTEXXA. These allergic reactions can be life threatening and usually happen within 2 hours of the infusion.

KRYSTEXXA should be given to you by a doctor or nurse in a healthcare setting where serious allergic reactions can be treated. Your doctor or nurse should watch you for any signs of a serious allergic reaction during and after your treatment with KRYSTEXXA.

**Tell your doctor or nurse right away if you have any of these symptoms during or after your treatment with KRYSTEXXA:**

- wheezing, shortness of breath, cough, chest tightness, chest pain, or trouble breathing
- dizziness, fainting, fast or weak heartbeat or feeling nervous
- reddening of the face, itching, hives, or feeling warm
- swelling of the throat or tongue, throat tightness, hoarse voice or trouble swallowing

**What is KRYSTEXXA?**

- KRYSTEXXA is a prescription medicine used in adults to help reduce the signs and symptoms of gout that are not controlled by other treatments.
- People with gout have too much uric acid in their bodies. Uric acid crystals collect in joints, kidneys, and other organs. This may cause pain, redness and swelling (inflammation). KRYSTEXXA works to lower blood levels of uric acid.
- KRYSTEXXA is not for use in people with too much uric acid in their bodies who do not have symptoms (asymptomatic hyperuricemia).

It is not known if KRYSTEXXA is safe and effective in children under 18 years of age.

**Who should not receive KRYSTEXXA?**

**Do not receive KRYSTEXXA if you:**

- have a rare blood problem called glucose 6-phosphate dehydrogenase (G6PD) deficiency or favism. Your doctor may test you for G6PD before you start KRYSTEXXA.
- have had a serious allergic reaction to KRYSTEXXA or any of its ingredients. See the end of this Medication Guide for a complete list of ingredients in KRYSTEXXA.

**What should I tell my doctor before receiving treatment with KRYSTEXXA?**  
**Before you receive KRYSTEXXA, tell your doctor about all of your medical conditions, including if you:**

- ever had any heart problems or high blood pressure.
- are pregnant or plan to become pregnant. It is not known if KRYSTEXXA will harm your unborn baby. Talk to your doctor if you are pregnant or plan to become pregnant.
- are breastfeeding or plan to breastfeed. It is not known if KRYSTEXXA passes into your breast milk. You and your doctor should decide if you will receive KRYSTEXXA or breastfeed.

**Tell your doctor about all the medicines you take**, including prescription and over-the-counter medicines, vitamins, and herbal supplements. **Do not** take any other uric acid lowering drug, such as allopurinol, febuxostat (Uloric) or probenecid, while receiving KRYSTEXXA.

Know the medicines you take. Keep a list of your medicines and show them to your doctor and pharmacist when you get a new medicine.

### **How will I receive KRYSTEXXA?**

- KRYSTEXXA is recommended to be given with another prescription medicine called methotrexate.  
KRYSTEXXA may also be used alone. You and your doctor will decide the treatment that is right for you.
- Your doctor may give you medicine before your treatment of KRYSTEXXA to help reduce your risk of getting gout flares or an allergic reaction. Take these medicines as directed by your doctor or nurse.
- You will receive KRYSTEXXA through a needle in your vein (intravenous infusion).
- Your treatment will take about 2 hours or sometimes longer. A doctor or nurse will give you the treatment.
- You will receive KRYSTEXXA every 2 weeks.
- If you have side effects, your doctor may stop or slow the infusion and may give you medicine to help the side effects.
- A doctor or nurse will watch you for side effects while you receive KRYSTEXXA and for some time afterwards.
- Your doctor may stop your KRYSTEXXA if your uric acid levels do not become normal and stay controlled or you have certain side effects.
- Your gout flares may increase in the first 3 months when you start receiving KRYSTEXXA. **Do not** stop receiving KRYSTEXXA even if you have a flare as the amount of flares will decrease after 3 months of treatment. Your doctor may give you other medicines to help reduce your gout flares for the first few months after starting KRYSTEXXA.

### **What are the possible side effects of KRYSTEXXA?**

**KRYSTEXXA may cause serious side effects.**

See "What is the most important information I should know about KRYSTEXXA?"

**The most common side effects of KRYSTEXXA when given together with methotrexate include:**

- gout flares
- joint pain
- coronavirus disease 2019 (COVID-19)
- nausea
- fatigue

**The most common side effects of KRYSTEXXA include:**

- gout flares
- allergic reactions (including infusion reactions). See "What is the most important information I should know about KRYSTEXXA?"
- nausea
- bruising
- sore throat
- constipation
- chest pain
- coronavirus disease 2019 (COVID-19)
- vomiting

Tell your doctor if you have any side effect that bothers you or that does not go away. These are not all of the side effects of KRYSTEXXA. For more information, ask your doctor or pharmacist.

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 Amgen Inc. at 1-800-77-AMGEN (1-800-772-6436).

**General information about the safe and effective use of KRYSTEXXA.**

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. This Medication Guide summarizes the most important information about KRYSTEXXA. If you would like more information, talk with your doctor. You can ask your pharmacist or doctor for information about KRYSTEXXA that is written for health professionals.

For more information, go to [www.KRYSTEXXA.com](http://www.KRYSTEXXA.com) or call 1-866-479-6742.

**What are the ingredients in KRYSTEXXA?**

**Active ingredient:** pegloticase

**Inactive ingredients:**

Ready-to-Use KRYSTEXXA 8 mg/50 mL (0.16 mg/mL) single-dose vial: disodium hydrogen phosphate heptahydrate, sodium chloride, sodium dihydrogen phosphate monohydrate, and water for injection.

To-be-Diluted KRYSTEXXA 8 mg/mL single-dose vial: disodium hydrogen phosphate dihydrate, sodium chloride, sodium dihydrogen phosphate dihydrate, and water for injection.

**AMGEN**

Manufactured by:

Horizon Therapeutics Ireland DAC

Dublin, Ireland

U.S. License Number 2022

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This Medication Guide has been approved by the U.S. Food and Drug Administration.

Revised:  
8/2025

**PRINCIPAL DISPLAY PANEL - 8 mg/mL Vial Carton**

NDC-75987-080-10

KRYSTEXXA®  
pegloticase

Injection

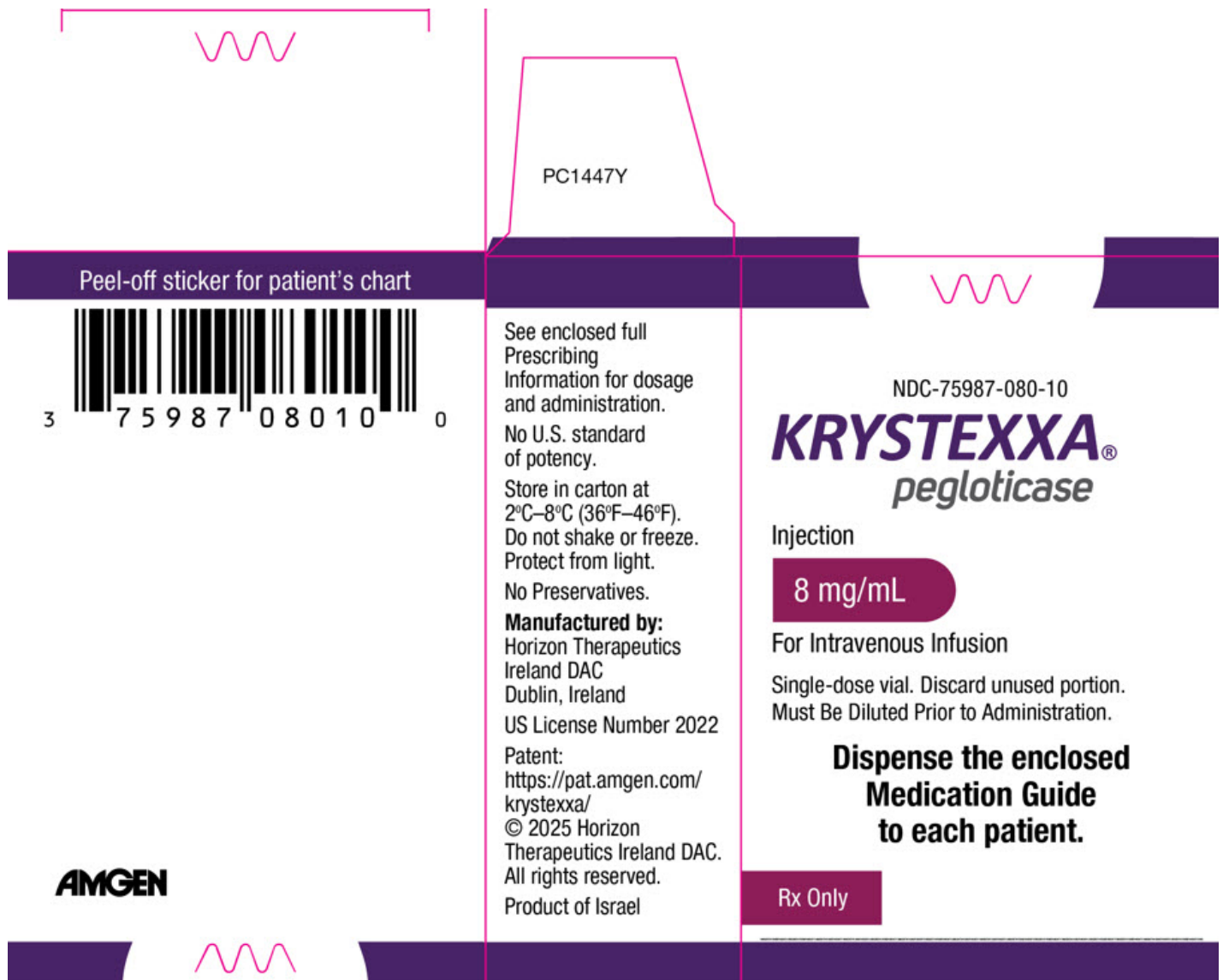
8 mg/mL

For Intravenous Infusion

Single-dose vial. Discard unused portion.  
Must Be Diluted Prior to Administration.

Dispense the enclosed  
Medication Guide  
to each patient.

Rx Only



## PRINCIPAL DISPLAY PANEL - 50 mL Vial Carton

NDC-75987-058-01

KRYSTEXXA®  
pegloticase



Injection

8 mg per 50 mL (0.16 mg/mL)

For Intravenous Infusion

Ready-to-Use Presentation and  
does NOT require further dilution.


Contains 1 Single-dose vial. Discard unused portion.

Dispense the enclosed  
Medication Guide  
to each patient.

Rx Only

AMGEN


EXP  
LOT  
NS  
NTN



Peel-off sticker for patient's chart

Recommended Dosage: see Prescribing Information.  
**Store refrigerated at 2°C–8°C (36°F–46°F).**  
Do not shake or freeze. Protect from light.  
No Preservatives.

**Manufactured by:**  
Horizon Therapeutics Ireland DAC  
Dublin, Ireland  
US License Number 2022  
Patent: <https://pat.amgen.com/krystexxa/>  
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Product of Israel



NDC-75987-058-01

**KRYSTEXXA®**  
*pegloticase*

Injection

8 mg per 50 mL (0.16 mg/mL)

For Intravenous Infusion

Ready-to-Use Presentation and  
does NOT require further dilution.

Contains 1 Single-dose vial. Discard unused portion.

Dispense the enclosed  
Medication Guide  
to each patient.

Rx Only

AMGEN

KRYSTEXXA			
pegloticase injection, solution			
Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:75987-080

<b>Route of Administration</b>		INTRAVENOUS		
<b>Active Ingredient/Active Moiety</b>				
<b>Ingredient Name</b>		<b>Basis of Strength</b>	<b>Strength</b>	
PEGLOTICASE (UNII: R581OT55EA) (PEGLOTICASE - UNII:R581OT55EA)		PEGLOTICASE	8 mg in 1 mL	
<b>Inactive Ingredients</b>				
<b>Ingredient Name</b>			<b>Strength</b>	
SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)				
SODIUM CHLORIDE (UNII: 451W47IQ8X)				
SODIUM PHOSPHATE, MONOBASIC, DIHYDRATE (UNII: 5QWK665956)				
WATER (UNII: 059QF0KO0R)				
<b>Packaging</b>				
<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
1	NDC:75987-080-10	1 in 1 CARTON	09/14/2010	
1		1 mL in 1 VIAL; Type 0: Not a Combination Product		
<b>Marketing Information</b>				
<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>		<b>Marketing Start Date</b>	<b>Marketing End Date</b>
BLA	BLA125293		09/14/2010	

<b>KRYSTEXXA</b>				
pegloticase injection, solution				
<b>Product Information</b>				
<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:75987-058	
<b>Route of Administration</b>	INTRAVENOUS			
<b>Active Ingredient/Active Moiety</b>				
<b>Ingredient Name</b>		<b>Basis of Strength</b>	<b>Strength</b>	
PEGLOTICASE (UNII: R581OT55EA) (PEGLOTICASE - UNII:R581OT55EA)		PEGLOTICASE	8 mg in 50 mL	
<b>Packaging</b>				
<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>

1	NDC:75987-058-01	1 in 1 CARTON	08/29/2025	
1		50 mL in 1 VIAL; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation		Marketing Start Date	Marketing End Date
BLA	BLA125293		08/29/2025	

**Labeler** - Horizon Therapeutics USA, Inc. (033470838)

**Registrant** - Amgen, Inc (039976196)