

## HIGHLIGHTS OF PRESCRIBING INFORMATION

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

ENJAYMO™ (sutimlimab-jome) injection, for intravenous use  
Initial U.S. Approval: 2022

-----RECENT MAJOR CHANGES-----	
Indications and Usage (1)	01/2023
Dosage and Administration (2.3)	01/2023
Warnings and Precautions (5.1, 5.2)	01/2023

-----INDICATIONS AND USAGE-----  
ENJAYMO is a classical complement inhibitor indicated for the treatment of hemolysis in adults with cold agglutinin disease (CAD). (1)

### -----DOSAGE AND ADMINISTRATION-----

- Vaccinate against encapsulated bacteria at least two weeks prior to treatment. (2.1)
- Weight-based dosage weekly for two weeks then every two weeks:
  - For patients weighing 39 kg to less than 75 kg: 6,500 mg by intravenous infusion. (2.2)
  - For patients weighing 75 kg or more: 7,500 mg by intravenous infusion. (2.2)
- See Full Prescribing Information for important preparation and administration instructions. (2.2, 2.3)

### -----DOSAGE FORMS AND STRENGTHS-----

Injection: 1,100 mg/22 mL (50 mg/mL) in a single-dose vial (3)

### -----CONTRAINDICATIONS-----

ENJAYMO is contraindicated in patients with known hypersensitivity to sutimlimab-jome or any of the inactive ingredients. (4)

### -----WARNINGS AND PRECAUTIONS-----

- Serious Infections: Ensure patients are vaccinated against encapsulated bacteria. Monitor patients for early signs and symptoms of infections. (5.1)
- Infusion-Related Reactions: Monitor patients for infusion-related reactions, interrupt if reaction occurs, and institute appropriate medical management as needed. (5.2)
- Risk of Autoimmune Disease: Monitor patients for signs and symptoms and manage medically. (5.3)
- Recurrent Hemolysis After ENJAYMO Discontinuation: Monitor patients for signs and symptoms of hemolysis if treatment with ENJAYMO is interrupted. (5.4)

### -----ADVERSE REACTIONS-----

Most common adverse reactions in the CADENZA study (Part A) (incidence  $\geq 18\%$ ) are rhinitis, headache, hypertension, acrocyanosis, and Raynaud's phenomenon. The most common adverse reactions in the CARDINAL study (incidence  $\geq 25\%$ ) are urinary tract infection, respiratory tract infection, bacterial infection, dizziness, fatigue, peripheral edema, arthralgia, cough, hypertension, and nausea. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Bioverativ USA Inc. (A SANOFI COMPANY) at 1-800-745-4447 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: 1/2023

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## FULL PRESCRIBING INFORMATION

### 1 INDICATIONS AND USAGE

#### Cold Agglutinin Disease

ENJAYMO (sutimlimab-jome) is indicated for the treatment of hemolysis in adults with cold agglutinin disease (CAD).

### 2 DOSAGE AND ADMINISTRATION

#### 2.1 Recommended Vaccinations

Vaccinate patients against encapsulated bacteria at least 2 weeks prior to initiation of ENJAYMO therapy according to the most current Advisory Committee on Immunization Practices (ACIP) recommendations for patients with persistent complement deficiencies *[see*

*Warnings and Precautions (5.1)*]. If urgent ENJAYMO therapy is indicated in an unvaccinated patient, administer vaccine(s) as soon as possible.

## **2.2 Recommended Dosage Regimen**

The recommended dosage of ENJAYMO for patients with CAD is based on body weight. For patients weighing 39 kg to less than 75 kg, the recommended dose is 6,500 mg and for patients weighing 75 kg or more, the recommended dose is 7,500 mg. Administer ENJAYMO intravenously weekly for the first two weeks, with administration every two weeks thereafter. Administer ENJAYMO at the recommended dosage regimen time points, or within two days of these time points.

If a dose is missed, administer as soon as possible; thereafter, resume dosing every two weeks. If the duration after the last dose exceeds 17 days, administer ENJAYMO weekly for two weeks, with administration every two weeks thereafter.

## **2.3 Preparation and Administration**

ENJAYMO is for intravenous infusion only.

Each vial of ENJAYMO is intended for single dose only.

ENJAYMO can either be used as an undiluted or diluted preparation.

### Undiluted preparation of ENJAYMO

Use aseptic technique to prepare ENJAYMO as follows:

- Remove ENJAYMO from the refrigerator. To minimize foaming, do not shake ENJAYMO.
- Inspect vials visually for particulate matter and discoloration prior to administration. ENJAYMO solution is a clear to slightly opalescent and colorless to slightly yellow liquid. Do not administer if discolored or if other foreign particulate matter is present.
- Withdraw the calculated volume of ENJAYMO from the appropriate number of vials based on the recommended dosage (see Table 1) and add to an empty infusion bag.
- Prior to administration, allow the infusion solution to adjust to room temperature (59°F to 77°F (15°C to 25°C)). Refer to Table 1 for infusion rate. The infusion should be administered over 1 hour. Administer ENJAYMO infusion solution only through a 0.2 micron in-line filter with a polyethersulfone (PES) membrane.
- The infusion catheter and tubing should be primed with the dosing solution immediately before infusion and flushed immediately following completion of the infusion with a sufficient quantity (approximately 20 mL) of sterile 0.9% Sodium Chloride Injection, USP.
- If the ENJAYMO infusion solution is not used immediately, store refrigerated at 36°F to 46°F (2°C to 8°C).
- Once removed from refrigeration, allow the ENJAYMO infusion solution to adjust to room temperature 59°F to 77°F (15°C to 25°C) and administer within 8 hours. Total time from the time of preparation, including refrigeration, adjustment to room temperature and

the expected infusion time should not exceed 36 hours. In-line infusion warmers may be used, do not exceed a temperature of 104°F (40°C).

- No incompatibilities have been observed between ENJAYMO infusion solution and infusion bags made of Di-(2-ethylhexyl)phthalate (DEHP) plasticized polyvinyl chloride (PVC), Ethyl Vinyl Acetate (EVA) and polyolefin (PO); administration sets made of DEHP-plasticized PVC, DEHP-free polypropylene (PP) and polyethylene (PE); and vial adapters made of polycarbonate (PC) and acrylonitrile-butadiene-styrene (ABS).

**Table 1: Infusion Reference Table for ENJAYMO (undiluted)**

Body Weight Range	Dose	Number of ENJAYMO Vials Needed	ENJAYMO Volume	Maximum Infusion Rate
Greater than or equal to 39 kg to less than 75 kg	6,500 mg	6	130 mL	130 mL/hour*
75 kg or greater	7,500 mg	7	150 mL	150 mL/hour*

\*Patients with cardiopulmonary disease may receive the infusion over 120 minutes.

#### Diluted preparation of ENJAYMO

Use aseptic technique to prepare ENJAYMO as follows:

- Remove ENJAYMO from the refrigerator. To minimize foaming, do not shake ENJAYMO.
- Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.
- ENJAYMO solution is a clear to slightly opalescent and colorless to slightly yellow solution. Do not administer if discolored or if foreign particulate matter is present.
- Withdraw the calculated volume of ENJAYMO from the appropriate number of vials based on the recommended dosage (see Table 1). Dilute the calculated volume with 0.9% Sodium Chloride Injection, USP to a total volume of 500 mL.
- Refer to Table 2 for infusion rate. Administer the infusion over 1 to 2 hours depending on the patient's body weight. Administer ENJAYMO infusion solution only through a 0.2 micron in-line filter with a polyethersulfone (PES) membrane.
- Prime the infusion tubing with the dosing solution immediately before infusion and flush immediately following completion of the infusion with a sufficient quantity (approximately 20 mL) of 0.9% Sodium Chloride Injection, USP.
- If the ENJAYMO infusion solution is not used immediately, store refrigerated at 36°F to 46°F (2°C to 8°C).
- Once removed from refrigeration, allow the ENJAYMO infusion solution to adjust to room temperature 59°F to 77°F (15°C to 25°C) and administer within 8 hours. Total time

from the time of preparation, including refrigeration, adjustment to room temperature and the expected infusion time should not exceed 36 hours. In-line infusion warmers may be used; do not exceed a temperature of 104°F (40°C).

- No incompatibilities have been observed between ENJAYMO infusion solution and infusion bags made of Di-(2-ethylhexyl)phthalate (DEHP) plasticized polyvinyl chloride (PVC), Ethyl Vinyl Acetate (EVA) and polyolefin (PO); administration sets made of DEHP-plasticized PVC, DEHP-free polypropylene (PP) and polyethylene (PE); and vial adapters made of polycarbonate (PC) and acrylonitrile-butadiene-styrene (ABS).

**Table 2: Infusion Reference Table for ENJAYMO (diluted in 0.9% Sodium Chloride Injection, USP)**

Body Weight Range	Dose	Number of ENJAYMO Vials Needed	ENJAYMO Volume	Volume of NaCl Diluent	Total Volume	Maximum Infusion Rate
39 kg to less than 70 kg	6,500 mg	6	130 mL	370 mL	500 mL	250 mL/hour
70 kg to less than 75 kg	6,500 mg	6	130 mL	370 mL	500 mL	500 mL/hour*
75 kg or greater	7,500 mg	7	150 mL	350 mL	500 mL	500 mL/hour*

\* Patients with cardiopulmonary disease may receive the infusion over 120 minutes.

Slow or stop the infusion in case of infusion reaction during ENJAYMO administration. Monitor the patient for at least two hours following completion of the initial infusion for signs or symptoms of an infusion and/or hypersensitivity reaction. Monitor the patient for one hour following completion of subsequent infusions for signs or symptoms of an infusion reaction.

### 3 DOSAGE FORMS AND STRENGTHS

Injection: 1,100 mg/22 mL (50 mg/mL) as a clear to slightly opalescent, colorless to slightly yellow solution in a single-dose vial.

### 4 CONTRAINDICATIONS

ENJAYMO is contraindicated in patients with known hypersensitivity to sutimlimab-jome or any of the inactive ingredients [see *Warnings and Precautions (5.2) and Adverse Reactions (6.1)*].

### 5 WARNINGS AND PRECAUTIONS

#### 5.1 Serious Infections

ENJAYMO may increase susceptibility to serious infections, including infections caused by encapsulated bacteria such as *Neisseria meningitidis* (any serogroup), *Streptococcus pneumoniae*, and *Haemophilus influenzae*.

Serious infections (bacterial and viral) were reported in 15% (10/66) of patients receiving ENJAYMO from the two phase 3 studies. These infections included urinary tract infection with sepsis, respiratory tract infection, pneumonia, otomastoiditis, and skin infections. One patient (1.5%) died due to klebsiella pneumonia.

Vaccinate patients for encapsulated bacteria according to the most current ACIP recommendations for patients with persistent complement deficiencies. Revaccinate patients in accordance with ACIP recommendations.

Immunize patients without a history of vaccination against encapsulated bacteria at least two weeks prior to receiving the first dose of ENJAYMO. If urgent ENJAYMO therapy is indicated in an unvaccinated patient, administer vaccine(s) as soon as possible.

Vaccination reduces, but does not eliminate, the risk of encapsulated bacterial infections.

If ENJAYMO treatment is administered to patients with active systemic infections, monitor closely for signs and symptoms of worsening infection. Some infections may become rapidly life-threatening or fatal if not recognized and treated promptly. Inform patients of these signs and symptoms and steps to be taken to seek immediate medical care. Consider interruption of ENJAYMO treatment in patients who are undergoing treatment for serious infection. ENJAYMO has not been studied in patients with chronic systemic infections such as hepatitis B, hepatitis C, or HIV. Consider patients' immune status when initiating treatment with ENJAYMO.

## **5.2 Infusion-Related Reactions**

ENJAYMO is contraindicated in patients with known hypersensitivity to sutimlimab-jome or any of the inactive ingredients [see *Contraindications (4)*]. Administration of ENJAYMO may result in infusion-related reactions. In the two phase 3 studies, 19 of 66 (29%) patients treated with ENJAYMO experienced infusion-related reactions (e.g., shortness of breath, rapid heartbeat, nausea, flushing, headache, hypotension, chest discomfort, pruritus, rash, injection site reaction, and dizziness) were reported in patients from the two clinical studies. One patient permanently discontinued ENJAYMO due to an infusion-related reaction.

Monitor patients for infusion-related reactions and interrupt if a reaction occurs. Discontinue ENJAYMO infusion and institute appropriate supportive measures if signs of hypersensitivity reactions, such as cardiovascular instability or respiratory compromise, occur.

## **5.3 Risk of Autoimmune Disease**

Based on its mechanism of action, ENJAYMO may potentially increase the risk for developing autoimmune diseases such as systemic lupus erythematosus (SLE). Development of systemic lupus erythematosus (SLE) has been associated with inherited classical complement deficiency. Patients with SLE or autoimmune disease with positive anti-nuclear antibody were excluded from clinical trials with ENJAYMO. In clinical trials, 3/66 (4.5%) patients developed a relapse or worsening of preexisting autoimmune disease. Monitor patients being treated with ENJAYMO for signs and symptoms and manage medically.

## **5.4 Recurrent Hemolysis After ENJAYMO Discontinuation**

If treatment with ENJAYMO is interrupted, closely monitor patients for signs and symptoms of recurrent hemolysis, e.g., elevated levels of total bilirubin or lactate dehydrogenase (LDH) accompanied by a decrease in hemoglobin, or reappearance of symptoms such as fatigue,

dyspnea, palpitations, or hemoglobinuria. Consider restarting ENJAYMO if signs and symptoms of hemolysis occur after discontinuation.

## 6 ADVERSE REACTIONS

The following clinically significant adverse reactions are discussed in greater detail in other sections of the labeling:

- Serious Infections [see *Warnings and Precautions (5.1)*]
- Infusion-Related Reactions [see *Warnings and Precautions (5.2)*]
- Risk of Autoimmune Disease [see *Warnings and Precautions (5.3)*]
- Recurrent Hemolysis After ENJAYMO Discontinuation [see *Warnings and Precautions (5.4)*]

### 6.1 Clinical Trials 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.

The safety of ENJAYMO in patients with a confirmed diagnosis of CAD was evaluated in a placebo-controlled study (CADENZA) in Part A (n=42) followed by an open-label single-arm study in Part B (n=39) and an open-label single-arm study (CARDINAL) (n=24) [see *Clinical Studies (14)*]. The median duration of treatment exposure to ENJAYMO was 104 weeks (patients randomized to ENJAYMO in CADENZA Part A) and 93 weeks (patients randomized to placebo in CADENZA Part A) and 143 weeks for CARDINAL.

#### CADENZA (Part A)

Serious adverse reactions occurred in 2/22 (9%) patients who received ENJAYMO. Serious adverse reactions included Raynaud's phenomenon (n=1) and febrile infection (n=1).

Permanent discontinuation of ENJAYMO due to an adverse reaction occurred in 2/22 (9.1%) patients. Adverse reactions which resulted in permanent discontinuation of ENJAYMO included Raynaud's phenomenon (n=1), acrocyanosis (n=1), and infusion related reactions (n=1).

Dosage interruptions of ENJAYMO due to an adverse reaction occurred in 3/22 patients. Adverse reactions which required dosage interruption included nasopharyngitis (n=1) and infusion related reaction (n=1), including pruritis (n=1) and chest discomfort (n=1).

The most common adverse reactions ( $\geq 18\%$ ) reported in the CADENZA study were rhinitis, headache, hypertension, acrocyanosis, and Raynaud's phenomenon.

**Table 3: Adverse Reactions ( $\geq 10\%$ ) in Patients Who Received ENJAYMO with a Difference Between Arms of  $>5\%$  Compared to Placebo in the CADENZA Study (Part A)**

Adverse Reactions	ENJAYMO (N=22)	Placebo (N=20)
Headache	5 (23%)	2 (10%)
Hypertension	5 (23%)	0
Rhinitis	4 (18%)	0

<b>Adverse Reactions</b>	<b>ENJAYMO (N=22)</b>	<b>Placebo (N=20)</b>
Acrocyanosis	4 (18%)	0
Raynaud's phenomenon	4 (18%)	0

## CARDINAL

Serious adverse reactions occurred in 10/24 (42%) patients who received ENJAYMO. The most common serious adverse reaction (>5%) was acrocyanosis (n=2). A fatal adverse reaction of pneumonia klebsiella occurred in one patient who received ENJAYMO.

Permanent discontinuation of ENJAYMO due to an adverse reaction occurred in 2/24 (8%) patients. Adverse reactions which resulted in permanent discontinuation of ENJAYMO included pneumonia klebsiella (n=1) and acrocyanosis (n=2).

Dosage interruptions of ENJAYMO due to an adverse reaction occurred in 7/24 patients. Adverse reactions which required dosage interruption included pneumonia, COVID-19 pneumonia, abdominal pain upper, urinary tract infection bacterial, urosepsis, acrocyanosis, viral infection, blood creatinine increased and infusion-related reaction.

The most common adverse reactions ( $\geq 25\%$ ) reported in the CARDINAL study were urinary tract infection, respiratory tract infection, bacterial infection, dizziness, fatigue, peripheral edema, arthralgia, cough, hypertension, and nausea.

**Table 4: Adverse Reactions ( $\geq 15\%$ ) in Patients Receiving ENJAYMO in the CARDINAL Study**

<b>Adverse Reaction/Body System</b>	<b>n (%) (N=24)</b>
<b>INFECTIONS AND INFESTATIONS</b>	
Urinary tract infection <sup>a</sup>	9 (38%)
Respiratory tract infection <sup>b</sup>	6 (25%)
Bacterial infection <sup>c</sup>	6 (25%)
Nasopharyngitis	5 (21%)
Viral infection <sup>d</sup>	5 (21%)
<b>NERVOUS SYSTEM DISORDERS</b>	
Dizziness <sup>e</sup>	7 (29%)
Headache	5 (21%)
<b>GENERAL DISORDERS</b>	
Fatigue <sup>f</sup>	8 (33%)
Peripheral edema <sup>g</sup>	6 (25%)
Pyrexia	5 (21%)
<b>MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS</b>	
Arthralgia	6 (25%)
<b>VASCULAR DISORDERS</b>	
Hypertension <sup>h</sup>	6 (25%)
Acrocyanosis	5 (21%)
<b>GASTROINTESTINAL DISORDERS</b>	
Nausea	6 (25%)

Adverse Reaction/Body System	n (%) (N=24)
Abdominal pain <sup>i</sup>	5 (21%)
<b>RESPIRATORY, THORACIC, AND MEDIASTINAL DISORDERS</b>	
Cough <sup>j</sup>	6 (25%)
<b>INJURY, POISONING AND PROCEDURAL COMPLICATIONS</b>	
Infusion-related reaction <sup>k</sup>	4 (17%)

Please note: if a subject has multiple events in a grouped term the subject is only counted once.

The following terms were combined for the analysis:

- a. Urinary Tract Infection includes cystitis, urosepsis
- b. Respiratory tract infection includes upper respiratory tract infection, bronchitis, lower respiratory tract infection, COVID-19 pneumonia
- c. Bacterial infection includes Escherichia urinary tract infection, urinary tract infection bacteria, cystitis bacterial, Escherichia sepsis, pneumococcal sepsis, pneumonia klebsiella, streptococcal sepsis, wound infection staphylococcal
- d. Viral infection includes oral herpes, herpes zoster, respiratory tract infection viral, viral upper respiratory tract infection, Herpes simplex viraemia
- e. Dizziness includes dizziness postural and vertigo
- f. Fatigue includes asthenia, malaise, mental fatigue
- g. Peripheral edema includes peripheral swelling
- h. Hypertension includes, blood pressure increased, essential hypertension
- i. Abdominal pain includes abdominal pain upper, abdominal tenderness
- j. Cough includes productive cough
- k. Infusion related reaction includes stress cardiomyopathy, feeling cold (All occurred within 24 hours of start of ENJAYMO infusion)

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Risk Summary

There are no available data on ENJAYMO use in pregnant women to evaluate for a drug-associated risk of major birth defects, miscarriage, or adverse maternal or fetal outcomes. Human immunoglobulin G (IgG) antibodies are known to cross the placental barrier; therefore, sutimlimab-jome may be transmitted from the mother to the developing fetus. In animal reproduction studies, intravenous administration of sutimlimab-jome to pregnant monkeys during organogenesis at doses 2 to 3 times the maximum recommended human doses did not result in adverse effects on pregnancy or offspring development (*see Data*).

The estimated 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.

#### Data

##### Animal data

Pregnant monkeys were administered sutimlimab-jome at doses of 60 and 180 mg/kg/dose via 30-minute intravenous infusion once-weekly from gestation Day 20 to parturition (approximately 21 doses) resulting in exposures 2 to 3 times the human exposures at the maximum recommended doses, based on area under the curve (AUC). Sutimlimab-jome was detectable in



infants born to pregnant females exposed to 180 mg/kg/week. No effects on reproductive and developmental parameters were observed in maternal animals and offspring, respectively.

## **8.2 Lactation**

### **Risk Summary**

There are no data on the presence of sutimlimab-jome in human milk, effects on the breastfed child, or the effects on milk production. Maternal IgG is known to be present in human milk. The effects of local gastrointestinal exposure and limited systemic exposure in the breastfed child to sutimlimab-jome are unknown. No conclusions can be drawn regarding whether or not ENJAYMO is safe for use during breastfeeding. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for ENJAYMO and any potential adverse effects on the breastfed child from ENJAYMO or from the underlying maternal condition.

## **8.4 Pediatric Use**

Safety and effectiveness in pediatric patients have not been established.

## **8.5 Geriatric Use**

Of the 66 patients with CAD in clinical studies of ENJAYMO, 65% were 65 years of age and over, including 27% who were 75 years of age and over. No overall differences in safety or effectiveness were observed between these patients and younger patients, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

## **11 DESCRIPTION**

Sutimlimab-jome, a classical complement inhibitor, is a humanized monoclonal antibody expressed by recombinant in Chinese hamster ovary (CHO) cells and produced *in vitro* using standard mammalian cell culture methods. Sutimlimab-jome is composed of two heterodimers. Each heterodimer is composed of a heavy and a light polypeptide chain. Each heavy chain (H-chain) is composed of 445 amino acids and each light chain (L-chain) contains 216 amino acids. Sutimlimab-jome has a molecular weight of approximately 147 kDa.

ENJAYMO (sutimlimab-jome) injection is a sterile, clear to slightly opalescent, colorless to slightly yellow, preservative-free solution for intravenous use. Each single-dose vial contains 1,100 mg sutimlimab-jome at a concentration of 50 mg/mL with a pH of 6.1. Each mL contains 50 mg of sutimlimab-jome and also contains polysorbate 80 (0.2 mg), sodium chloride (8.18 mg), sodium phosphate dibasic heptahydrate (0.48 mg), sodium phosphate monobasic monohydrate (1.13 mg), and Water for Injection, USP.

## **12 CLINICAL PHARMACOLOGY**

### **12.1 Mechanism of Action**

Sutimlimab-jome is an immunoglobulin G (IgG), subclass 4 (IgG4) monoclonal antibody (mAb) that inhibits the classical complement pathway (CP) and specifically binds to complement protein component 1, s subcomponent (C1s), a serine protease which cleaves C4. Sutimlimab-jome does not inhibit the lectin and alternative pathways. Inhibition of the classical complement

pathway at the level of C1s prevents deposition of complement opsonins on the surface of RBCs, resulting in inhibition of hemolysis in patients with CAD.

## **12.2 Pharmacodynamics**

Greater than 90% inhibition of CP was observed following a single sutimlimab-jome infusion and sustained in patients with CAD when sutimlimab-jome concentrations were greater than or equal to 100 mcg/mL. C4 levels returned to normal levels (0.2 g/L) in patients with CAD within one week following the first dose of sutimlimab-jome. Complete CP inhibition following initiation of sutimlimab-jome treatment led to inhibition of hemolysis as evidenced by normalization of bilirubin, decrease in LDH, increase in haptoglobin, and decrease in reticulocytes.

After the first treatment with sutimlimab-jome, near normalization of bilirubin associated with a greater than 1 g/dL increase in hemoglobin was observed, demonstrating the effect of CP inhibition. The extent and duration of the pharmacodynamic response in patients with CAD were exposure dependent for sutimlimab-jome.

## **12.3 Pharmacokinetics**

Following administration of the approved weight-based recommended dosages, the exposure of sutimlimab-jome increases proportionally over a dosage range of 60 mg/kg to 100 mg/kg by intravenous infusion (0.3 to 1.5 times the maximum approved recommended dosage based on 75 kg body weight). Steady state was achieved by Week 7 after starting sutimlimab-jome treatment, with an accumulation ratio of less than 2.

### **Distribution**

Sutimlimab-jome binds to C1s in the serum. The volume of distribution at steady state was approximately 5.8 L in patients with CAD.

### **Elimination**

The terminal elimination half-life and clearance varies at different doses due to target-mediated drug disposition at lower sutimlimab-jome concentrations. The terminal elimination half-life ( $t_{1/2\beta}$ ) of sutimlimab-jome is 21 days with a clearance (CL) of approximately 0.14 L/day at the approved recommended dosage.

### **Metabolism**

Sutimlimab-jome is a protein. It is generally recognized that antibodies are metabolized by degradation into small peptides and individual amino acids.

### **Specific Populations**

No clinically significant differences in the pharmacokinetics of sutimlimab-jome were observed based on sex, age (19 to 88 years of age), ethnicity (Japanese, non-Japanese), and mild to moderate renal impairment (30 to 89 mL/min/1.73 m<sup>2</sup> measured by estimated glomerular filtration rate [eGFR]). The effects of severe renal impairment and hepatic impairment on the pharmacokinetics of sutimlimab-jome are unknown.

### **Body weight**

Population pharmacokinetic analysis shows that sutimlimab-jome AUC at steady-state decreased up to 40% for a patient weighing 110 kg following the 7.5 g dose and increased up to 170% for a

patient weighing 40 kg following the 6.5 g dose as compared with a patient weighing 70 kg following the 6.5 g dose. The effect of body weight on pharmacokinetics has been integrated in the recommended dose regimen tiered by body weight.

## 12.6 Immunogenicity

The observed incidence of anti-drug antibodies is highly dependent on the sensitivity and specificity of the assay. Differences in assay methods preclude meaningful comparisons of the incidence of anti-drug antibodies in the studies described below with the incidence of anti-drug antibodies in other studies, including those of sutimlimab-jome or of other sutimlimab products.

During the treatment period in CARDINAL and CADENZA, 8/66 (12%) ENJAYMO-treated patients developed anti-sutimlimab-jome antibodies (duration of exposure up to 177 weeks). There was no identified clinically significant effect of anti-drug antibodies on pharmacokinetics, pharmacodynamics, safety, or effectiveness of ENJAYMO over the treatment duration [*see Clinical Studies (14)*].

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity and mutagenicity studies have not been conducted with sutimlimab-jome.

Effects of sutimlimab-jome on male and female fertility have not been studied in animals. In repeat-dose studies in cynomolgus monkeys with sutimlimab-jome administered once-weekly at exposures 3 to 4 times the human exposures at the maximum recommended human doses of sutimlimab-jome, no effects on male or female reproductive tissues were observed.

## 14 CLINICAL STUDIES

### 14.1 CADENZA

The efficacy of ENJAYMO was assessed in a placebo-controlled 6-month trial in 42 patients (CADENZA, NCT 03275454). Following the completion of the 6-month treatment period (Part A) in which 22 patients received ENJAYMO and 20 patients received placebo, 39 patients (19 patients on ENJAYMO and 20 patients on placebo) continued to receive ENJAYMO in a long-term safety and durability of response extension phase (Part B) for an additional 12 months following last patient out from Part A. The trial included a 9 week safety follow-up after the last dose of ENJAYMO. Patients with a confirmed diagnosis of CAD based on chronic hemolysis, polyspecific direct antiglobulin test (DAT), monospecific DAT specific for C3d, cold agglutinin titer  $\geq 64$  at 4°C, an IgG DAT  $\leq 1+$  and no history of transfusion within 6 months, or more than one blood transfusion in the 12 months prior to enrollment in the trial were administered 6.5 g or 7.5 g ENJAYMO (based on body weight) intravenously over approximately 60 minutes on Day 0, Day 7, and every 14 days thereafter; or placebo. Patients with cold agglutinin disease secondary to infection, rheumatologic disease, systemic lupus erythematosus, or overt hematologic malignancy were excluded, whereas patients with a history of or concomitant low-grade lymphoproliferative disease were not excluded.

Major baseline characteristics of the study population are summarized in Table 5.

**Table 5: Baseline Characteristics of Patients Included in CADENZA**

Parameter	Statistic	CADENZA	
		Placebo N=20	ENJAYMO N=22
Age	Mean Min, Max	68.2 51, 83	65.3 46, 88
Sex			
Male	n (%)	4 (20.0)	5 (22.7)
Female		16 (80.0)	17 (77.3)
Body weight	Mean, Kg Min, Max	64.9 48, 95	66.8 39, 100
Hemoglobin	Mean, g/dL	9.33	9.15
Bilirubin (total)*	µmol/L	35.77 (1.75 x ULN)	41.17 (2 x ULN)
LDH	U/L	380.8	421.5
History of transfusion	Mean number of transfusions (range)		
Within last 6 months		0	0
Within last 12 months		0	0.14 (0, 1)
FACIT <sup>†</sup> -Fatigue scale	Mean	32.99	31.67

\*Placebo N=18 and ENJAYMO N= 20 in CADENZA, for bilirubin data excluding patients with either a positive or no available test result for Gilbert's syndrome.

<sup>†</sup>ULN: Upper limit of normal, FACIT: Functional Assessment of Chronic Illness Therapy (FACIT-Fatigue is measured on a scale of 0 (worst fatigue) to 52 (no fatigue))

Efficacy was based on the proportion of patients who met the following criteria: an increase from baseline in Hgb level  $\geq 1.5$  g/dL at the treatment assessment time point (mean value from Weeks 23, 25, and 26), no blood transfusion from Week 5 through Week 26, and no treatment for CAD beyond what was permitted per protocol from Week 5 through Week 26. Efficacy was further assessed based on the effect of ENJAYMO on Hgb, laboratory measures of hemolysis including mean change from baseline in total bilirubin and LDH. Supportive efficacy data collected included transfusion usage after five weeks of treatment. In addition, mean change from baseline in symptoms and impacts of fatigue were assessed using a patient-reported outcome instrument, the FACIT-Fatigue (score range from 0 to 52 with higher scores indicating less fatigue).

The data from this study demonstrated a statistically significant treatment effect of ENJAYMO over placebo in terms of the rate of patients who met the efficacy criteria (responder) as well as improving symptoms and impacts of fatigue (FACIT-Fatigue). The responder rate difference between ENJAYMO and placebo was 58.78% (95% CI: 34.6% to 82.96%) with a p-value of 0.0004. At the treatment assessment timepoint (TAT), 16 of 22 patients on ENJAYMO (72.7%; 95% CI: 49.8% to 89.3%) and 3 of 20 patients on placebo (15.0%; 95% CI: 3.2% to 37.9%) met primary criteria. Efficacy of ENJAYMO in the inhibition of hemolysis in patients with CAD was demonstrated across multiple end points as described in the table below (see Table 6).

**Table 6: Efficacy Results in Patients with CAD in the CADENZA Part A Study**

Parameter	Statistic	Placebo N=20	ENJAYMO N=22	Treatment Effect
<b>Responder<sup>a</sup></b>	n (%)	3 (15)	16 (72.7)	58.78 (34.6, 82.96) <sup>b</sup>
	p-value:			<0.001
<b>Hemoglobin</b>	Mean change from baseline (LS <sup>†</sup> Mean), g/dL	0.09	2.66	2.56
	95% CI of LS Mean			(1.75, 3.38)
	p-value:			<0.001
Patients with mean change from baseline of: greater than or equal to 1.5 g/dL	n (%)	3 (15)	16 (72.7)	NC
Patients not receiving blood transfusion from Week 5 through Week 26 (transfusion avoidance)	n (%)	16 (80)	18 (81.8)	NC
Patients not receiving protocol-prohibited CAD medications from Week 5 through Week 26 <sup>c</sup>	n (%)	20 (100)	19 (86.4)	NC
<b>FACIT<sup>†</sup>-Fatigue</b>	Mean change from baseline (LS <sup>†</sup> Mean)	1.91	10.83	8.93
	95% CI of LS Mean			(4, 13.85)
	p-value:			<0.001

<sup>a</sup> A responder was defined as a patient with an increase from baseline in Hgb level  $\geq 1.5$  g/dL at the treatment assessment time point (mean value from Weeks 23, 25, and 26), no blood transfusion from Week 5 through Week 26, and no treatment for CAD beyond what was permitted per protocol from Week 5 through Week 26.

<sup>b</sup> The Mantel-Haenszel stratum-weighted estimator of the rate difference with 95% CI was calculated using the Sato variance estimator. The stratification factors are baseline hemoglobin (< median vs  $\geq$  median) and geographic region (Asia/Other, North America, and Europe)

<sup>c</sup> Prohibited therapies included rituximab alone or in combination with cytotoxic agents

<sup>†</sup>LS: Least Square, FACIT-Fatigue: Functional Assessment of Chronic Illness Therapy-Fatigue Scale

NC= Not calculated

During Part A, an increase in mean hemoglobin level of 2.02 g/dL was observed in patients on ENJAYMO at Week 3; in the placebo group the mean hemoglobin level decreased by 0.31g/dL. At treatment assessment timepoint, a mean decrease in bilirubin of 1.29 mg/dL compared to baseline was reported in patients on ENJAYMO (n=17) versus 0.11 mg/dL on placebo (n=18). In the ENJAYMO group, bilirubin levels normalized in 88.2% (n=15) of patients compared to 22.2% (n=4) of patients in the placebo arm. At treatment assessment timepoint, a mean decrease

in LDH of 150.83 U/L compared to baseline was reported in patients on ENJAYMO (n=19) versus an increase of 7.6 U/L on placebo (n=20). In the ENJAYMO group, LDH levels were < 1.5 x ULN in 94.7% (n=18) of patients compared to 70% (n=14) in the placebo arm.

In Part B, mean hemoglobin levels were maintained at >10.5 g/dL. Sustained normalization of mean bilirubin levels was also observed indicating a sustained decrease in hemolysis. Mean hemoglobin level of 11.58 g/dL (range: 6.90-15.30) and 1.01 mg/dL (range: 0.29–5.54) for bilirubin was observed at the last on-treatment visit.

After the last dose of ENJAYMO in the study, signs and symptoms of recurrent hemolysis were observed, nine weeks after the last dose in Part B; mean hemoglobin decreased by 2.41 g/dL (SE: 0.373) and mean bilirubin increased by 1.27 mg/dL (SE: 0.182) from the last available values during treatment.

## 14.2 CARDINAL

The efficacy of ENJAYMO was assessed in an open-label, single-arm, 6-month trial in 24 patients (CARDINAL, NCT03347396). Following the completion of the 6-month treatment period (Part A), patients continued to receive ENJAYMO in a long-term safety and durability of response extension phase (Part B) for an additional 24 months following last patient out from Part A. The trial included a 9 week safety follow-up after the last dose of ENJAYMO.

Patients with a confirmed diagnosis of CAD based on chronic hemolysis, polyspecific direct antiglobulin test (DAT), monospecific DAT specific for C3d, cold agglutinin titer  $\geq 64$  at 4°C, and IgG DAT  $\leq 1+$  and a recent blood transfusion in the 6 months prior to enrollment were administered 6.5 g or 7.5 g ENJAYMO (based on body weight) intravenously over approximately 60 minutes on Day 0, Day 7, and every 14 days thereafter. Patients with cold agglutinin syndrome secondary to infection, rheumatologic disease, systemic lupus erythematosus, or overt hematologic malignancy were excluded, whereas patients with a history of or concomitant low-grade lymphoproliferative disease were not excluded. Major baseline characteristics of the trial population are summarized in Table 7.

**Table 7: Baseline Characteristics of Patients Included in CARDINAL**

Parameter	Statistic	ENJAYMO N=24
Age	Mean (SD) Range	71.3 (8.2) 55 to 85 years
Sex	n (%)	
Female		15 (63)
Male		9 (38)
Body weight	Mean (SD) Range	67.8 (15.8) 40 to 112 kg
Hemoglobin	Mean (SD), g/dL	8.6 (1.16)
Bilirubin (total)*	Mean (SD), mg/dL	3.1 (1.41) (2.6 × ULN <sup>†</sup> )
LDH <sup>†</sup>	Mean (SD), U/L	438 (484.60)

Parameter	Statistic	ENJAYMO N=24
Blood transfusion	Median number of transfusions (range)	
Within last 6 months		2.0 (1, 19)
Within last 12 months		2.0 (1, 23)

\* N=21 for bilirubin data excluding patients with Gilbert's syndrome.

† ULN: Upper limit of normal, LDH: Lactate dehydrogenase.

Efficacy was based on the proportion of patients who met the following criteria: an increase from baseline in Hgb level  $\geq 2$  g/dL or a Hgb level  $\geq 12$  g/dL at the treatment assessment time point (mean value from Weeks 23, 25, and 26), no blood transfusion from Week 5 through Week 26, and no treatment for CAD beyond what was permitted per protocol from Week 5 through Week 26.

Efficacy of ENJAYMO in patients with CAD is described in Table 8.

**Table 8: Efficacy Results in Patients with CAD in CARDINAL Part A Study**

Parameter	Statistic	ENJAYMO N=24
<b>Responder*</b>	n (%)	13 (54)
Hemoglobin level $\geq 12$ g/dL or Increase in Hemoglobin level of $\geq 2$ g/dL	n (%)	15 (63)
Hemoglobin level $\geq 12$ g/dL	n (%)	9 (38)
Increase in Hemoglobin level of $\geq 2$ g/dL	n (%)	15 (63)
Patients not receiving RBC transfusion from Week 5 through Week 26 (transfusion avoidance)	n (%)	17 (71)
Patients not receiving protocol-prohibited CAD medications† from <u>Week 5</u> through Week 26	n (%)	22 (92)

\* A responder was defined as a patient with an increase from baseline in Hgb level  $\geq 2$  g/dL or a Hgb level  $\geq 12$  g/dL at the treatment assessment time point (mean value from Weeks 23, 25, and 26), no blood transfusion from Week 5 through Week 26, and no treatment for CAD beyond what was permitted per protocol from Week 5 through Week 26.

† Prohibited therapies included rituximab alone or in combination with cytotoxic agents.

In Part A, among 14 patients with baseline and follow-up bilirubin values, the mean was 3.23 mg/dL (2.7-fold ULN) at baseline and 0.91 mg/dL (0.8-fold ULN) at the treatment assessment time point. The least-squares (LS) mean change was reduction of -2.23 mg/dL (95% CI: -2.49 to -1.98). Among 17 patients with baseline and follow-up LDH values, the mean LDH was 424 U/L (1.7-fold ULN) at baseline and 301 U/L (1.2-fold ULN) at the follow-up time point. The least squared mean change in LDH at the treatment assessment time point was reduction of -126 (95% CI: -218 to -35).

In CARDINAL, an increase in mean hemoglobin level of 2.29 g/dL (SE: 0.308) was observed at Week 3 and 3.18 g/dL (SE: 0.476) at treatment assessment time point. The observed model mean change in hemoglobin level from baseline at treatment assessment time point was an improvement of 2.60 g/dL (95% CI: 0.74, 4.46).

In Part B, mean hemoglobin levels were maintained at >10 g/dL. Sustained normalization of mean bilirubin levels was also observed indicating a sustained decrease in hemolysis. Mean hemoglobin level of 12.23 g/dL (range: 9.20–14.40) and 0.96 mg/dL (range: 0.4–1.7) for bilirubin was observed at the last on-treatment visit.

After the last dose of ENJAYMO in the study, signs and symptoms of recurrent hemolysis were observed, nine weeks after the last dose in Part B; mean hemoglobin decreased by 2.28 g/dL (SE: 0.402) and mean bilirubin increased by 1.42 mg/dL (SE: 0.192) from the last available values during treatment.

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

### **How Supplied**

ENJAYMO (sutimlimab-jome) injection is a clear to slightly opalescent, colorless to slightly yellow, preservative-free solution supplied as one 1,100 mg/22 mL (50 mg/mL) single-dose vial per carton (NDC 80203-347-01).

### **Storage and Handling**

Store ENJAYMO vials refrigerated at 36°F to 46°F (2°C to 8°C) in the original carton to protect from light. Do not freeze. Do not shake.

Discard unused portion.

## **17 PATIENT COUNSELING INFORMATION**

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

### **Serious Infections**

Advise patients of the potential increased risk of infections including infections caused by encapsulated bacteria such as *Neisseria meningitidis*, *Streptococcus pneumoniae*, and *Haemophilus influenzae*. These infections may be serious or life-threatening. Inform patients that they are required to receive vaccinations against these bacteria according to current medical guidelines prior to initiation of and during treatment with ENJAYMO. Educate patients on the symptoms of infections and advise them to seek immediate medical attention if any new symptoms of infection occur [see *Warnings and Precautions (5.1)*].

### **Infusion-Related Reactions**

Advise patients that administration of ENJAYMO may result in infusion-related reactions including hypersensitivity reactions. Hypersensitivity reactions may be serious or life-threatening (e.g., anaphylaxis). Educate patients on the symptoms of infusion-related reactions and advise them to seek medical attention if any new symptoms of infusion-related reactions occur [see *Contraindications (4) and Warnings and Precautions (5.2)*].

### **Risk of Autoimmune Disease**

Educate patients that there may be an increased risk of developing an autoimmune disease such as SLE during ENJAYMO therapy. Advise patients on signs and symptoms of SLE and to report any new symptoms of SLE and seek medical attention [see *Warnings and Precautions (5.3)*].

### **Discontinuation**



Inform patients with CAD that they may develop hemolysis due to CAD when ENJAYMO is discontinued and that they should be monitored by their healthcare provider following ENJAYMO discontinuation [*see Warnings and Precautions (5.4)*].

This product's labeling may have been updated. For the most recent prescribing information, please visit [www.enjaymo.com](http://www.enjaymo.com).

Manufactured by:

Bioverativ USA Inc.

Waltham, MA 02451

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For patent information: <https://www.sanofi.us/en/products-and-resources/patents>

## MEDICATION GUIDE

ENJAYMO™ (en-jaye-moe)

(sutimlimab-jome)

injection, for intravenous use

### What is the most important information I should know about ENJAYMO?

#### ENJAYMO can cause serious side effects, including:

**Serious infections.** ENJAYMO is a prescription medicine that affects your immune system. ENJAYMO can lower the ability of your immune system to fight infections. People who are treated with ENJAYMO may have an increased risk of getting infections caused by certain kinds of bacteria such as *Neisseria meningitidis*, *Streptococcus pneumoniae*, and *Haemophilus influenzae*. These infections may be serious or life-threatening. Some infections may quickly become life-threatening or cause death if not recognized and treated early.

- You need to receive vaccinations against infections caused by certain kinds of bacteria at least 2 weeks before your first dose of ENJAYMO. You may need to have additional vaccinations during treatment with ENJAYMO.
- If your healthcare provider decides that urgent treatment with ENJAYMO is needed, you should receive vaccinations as soon as possible.
- Vaccinations may reduce the risk of these infections, but do not prevent all infections. **Call your healthcare provider or get medical help right away if you get any new signs and symptoms of an infection**, including:
  - fever
  - severe headache with stiff neck or back
  - pain during urination or urinating more often than usual
  - cough or difficulty breathing
  - flu-like symptoms
  - pain, redness, or swelling of the skin

See “What are the possible side effects of ENJAYMO?” for more information about side effects.

### What is ENJAYMO?

ENJAYMO is a prescription medicine used to treat the breakdown of red blood cells (hemolysis) in adults with cold agglutinin disease (CAD).

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

### Who should not receive ENJAYMO?

**Do not receive ENJAYMO** if you are allergic to sutimlimab-jome or any of the ingredients in ENJAYMO. See the end of this Medication Guide for a complete list of ingredients in ENJAYMO.

### Before receiving ENJAYMO, tell your healthcare provider about all of your medical conditions, including if you:

- have a fever or infection, including a history of human immunodeficiency virus (HIV), hepatitis B, or hepatitis C.
- have an autoimmune disease such as systemic lupus erythematosus (SLE), also known as lupus.
- are pregnant or plan to become pregnant. It is not known if ENJAYMO will harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if ENJAYMO passes into your breast milk. You should talk to your healthcare provider about the best way to feed your baby during treatment with ENJAYMO.

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

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

### How will I receive ENJAYMO?

- ENJAYMO is given through a vein by intravenous (I.V.) infusion, usually over 1 to 2 hours.
- You will usually receive a starting dose of ENJAYMO, followed by a second dose of ENJAYMO 1 week later. Then 2 weeks after your second dose, you will start to receive an ENJAYMO infusion every 2 weeks.
- After your first infusion, you should be monitored for infusion and allergic reactions for at least 2 hours. For all future infusions, you should be monitored for infusion reactions for 1 hour. See “What are the possible side effects of ENJAYMO?”
- **If you have CAD and you stop receiving ENJAYMO, your healthcare provider should monitor you closely for return of your symptoms after you stop ENJAYMO. Stopping ENJAYMO may cause the breakdown of your red blood cells due to CAD to return.** Symptoms or problems that can happen due to red blood cell breakdown include:
  - tiredness
  - shortness of breath
  - rapid heart rate
  - blood in your urine or dark urine
- If you miss an ENJAYMO infusion, call your healthcare provider right away.

## What are the possible side effects of ENJAYMO?

### ENJAYMO can cause serious side effects, including:

- See "**What is the most important information I should know about ENJAYMO?**"
- **Infusion-related reactions.** Treatment with ENJAYMO may cause infusion-related reactions, including allergic reactions that may be serious or life-threatening. Your healthcare provider may slow down or stop your ENJAYMO infusion if you have an infusion-related reaction and will treat your symptoms if needed. Tell your healthcare provider right away if you develop symptoms during your ENJAYMO infusion that may mean you are having an infusion-related reaction, including:
  - shortness of breath
  - decrease in blood pressure
  - chest discomfort
  - rapid heartbeat
  - nausea
  - injection site reaction
  - flushing
  - headache
  - dizziness
  - rash
  - itchy skin
- **Risk of autoimmune disease.** ENJAYMO may increase your risk for developing an autoimmune disease such as SLE. Tell your healthcare provider and get medical help if you develop any symptoms of SLE, including:
  - joint pain or swelling
  - rash on the cheeks and nose
  - unexplained fever

### The most common side effects of ENJAYMO include:

- increase in blood pressure
- urinary tract infection
- respiratory tract infection
- bacterial infection
- swelling in lower legs or hands
- joint pain
- headache
- nausea
- bluish color to the lips and skin
- runny nose
- dizziness
- feeling tired or weak
- cough
- changes in color or sensation in the fingers and toes (Raynaud's phenomenon)

These are not all the possible side effects of ENJAYMO.

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

### General information about the safe and effective use of ENJAYMO.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. You can ask your pharmacist or healthcare provider for information about ENJAYMO that is written for health professionals.

### What are the ingredients in ENJAYMO?

**Active ingredient:** sutimlimab-jome

**Inactive ingredients:** polysorbate 80, sodium chloride, sodium phosphate dibasic heptahydrate, sodium phosphate monobasic monohydrate, and Water for Injection, USP.

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For more information, go to [www.ENJAYMO.com](http://www.ENJAYMO.com) or call 1-800-745-4447.

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

Revised: January 2023