

# KEDBUMIN- albumin (human) injection, solution

Kedrion S.p.A

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## HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use KEDBUMIN™ safely and effectively. See full prescribing information for KEDBUMIN™ [Albumin (Human) U.S.P.] sterile, aqueous solution for single dose intravenous administration

Initial U.S. Approval: June, 2011.

## ----- RECENT MAJOR CHANGES -----

Dosage forms and strengths (3) 08/2012

## ----- INDICATIONS AND USAGE -----

KEDBUMIN™ is a 25% albumin solution indicated for:

- Hypovolemia (1.1) and Hypoalbuminemia (1.2)
- Prevention of central volume depletion after paracentesis due to cirrhotic ascites (1.3)
- Ovarian hyperstimulation syndrome (OHSS) (1.4)
- Adult Respiratory Distress Syndrome (ARDS) (1.5)
- Burns (1.6)
- Hemodialysis patients undergoing long term dialysis (1.7)
- Patients who cannot tolerate substantial volumes of salt solution (1.7)
- Priming as part of a cardiopulmonary bypass fluids (1.8)

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

Intravenous Administration Only. KEDBUMIN™ may be diluted with 5% glucose or 0.9% sodium chloride. Concentration, dosage, and infusion-rate should be adjusted to the patient's individual requirements and indication (2.1). Daily dosage should not exceed 2g per kg body weight.

### Indication: Dose

<b>Hypovolemia:</b>	Adults: Initial dose of 25 g is suggested.
<b>Hypoalbuminemia:</b>	50-75 g
<b>Prevention of Central Volume Depletion after Paracentesis due to Cirrhotic Ascites:</b>	Adults: 6-8 g for every 1000 mL of ascitic fluid removed
<b>OHSS:</b>	Adults: 50-100 g over 4 hours and repeated at 4-12 hour intervals as necessary. 10-50 g; single infusion
<b>ARDS:</b>	Adults: 25 g over 30 minutes and repeated at 8 hours for 3 days if necessary
<b>Burns:</b>	Determined by direct observation of vital signs or measurement of either plasma oncotic pressure or protein content
<b>Hemodialysis:</b>	100 mL
<b>Cardiopulmonary Bypass:</b>	Estimated from the difference between the desired and actual total serum protein concentration multiplied by the estimated plasma volume (approximately 40mL per kg) times 2

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

KEDBUMIN™ is a sterile, single dose solution containing 0.25 g per mL human albumin in the following presentation:

- 12.5 g albumin per 50 mL single dose vial (3)
- 25 g albumin per 100 mL single dose vial (3)

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

- Severe anemia or heart failure in the presence of normal or increased intravascular volume (4).
- Hypersensitivity to albumin, the excipients, or components of the container.

----- **WARNINGS AND PRECAUTIONS** -----

- Risk of transmission of infectious agents (5.1).
- Caution where hypervolemia and its consequences or hemodilution could represent a special risk (5.2)
- Do not dilute with water for injections (5.2)

----- **ADVERSE REACTIONS** -----

The most common adverse reactions include fever, chills, rash, nausea, vomiting, tachycardia, and hypotension (6).

**To report SUSPECTED ADVERSE REACTIONS, contact KEDRION at 1-855-427-6378 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch)**

----- **USE IN SPECIFIC POPULATIONS** -----

- Pregnancy: no human or animal data. Use only if clearly needed (8.1).
- Pediatric use: ages 12-16 years use as in adults (8.4)

See 17 for **PATIENT COUNSELING INFORMATION**.

**Revised: 3/2013**

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**FULL PRESCRIBING INFORMATION: CONTENTS\***

**1 INDICATIONS AND USAGE**

- 1.1 Hypovolemia
- 1.2 Hypoalbuminemia
- 1.3 Prevention of Central Volume Depletion after Paracentesis due to Cirrhotic Ascites
- 1.4 Ovarian Hyperstimulation Syndrome (OHSS)
- 1.5 Adult Respiratory Distress Syndrome (ARDS)
- 1.6 Burns
- 1.7 Hemodialysis
- 1.8 Cardiopulmonary Bypass

**2 DOSAGE AND ADMINISTRATION**

- 2.1 Dosage
- 2.2 Administration

**3 DOSAGE FORMS AND STRENGTHS**

**4 CONTRAINDICATIONS**

**5 WARNINGS AND PRECAUTIONS**

- 5.1 Hypersensitivity
- 5.2 Hypovolemia
- 5.3 Hemolysis
- 5.4 Large Volumes
- 5.5 Hydration
- 5.6 Infectious Diseases

**6 ADVERSE REACTIONS**

- 6.1 General

**7 DRUG INTERACTIONS**

**8 USE IN SPECIFIC POPULATIONS**

- 8.1 Pregnancy
- 8.4 Pediatric Use

**10 OVERDOSAGE**

**11 DESCRIPTION**

**12 CLINICAL PHARMACOLOGY**

- 12.1 Mechanism of Action
- 12.3 Pharmacokinetics

**15 REFERENCES**

**16 HOW SUPPLIED/STORAGE AND HANDLING**

## **17 PATIENT COUNSELING INFORMATION**

\* Sections or subsections omitted from the full prescribing information are not listed.

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

#### **1.1 Hypovolemia**

For restoration and maintenance of circulating blood volume where volume deficiency is demonstrated and colloid use is appropriate.

#### **1.2 Hypoalbuminemia**

KEDBUMIN™ is indicated for severe albumin deficiency caused by illness or active bleeding. When albumin deficiency results from excessive protein loss, the effect of albumin administration will be temporary unless the underlying disorder is reversed.

#### **1.3 Prevention of Central Volume Depletion after Paracentesis due to Cirrhotic Ascites**

KEDBUMIN™ is indicated for maintenance of cardiovascular function following the removal of large volumes of ascitic fluid due to cirrhosis [1, 2].

#### **1.4 Ovarian Hyperstimulation Syndrome (OHSS)**

KEDBUMIN™ is indicated as a plasma expander in the fluid management in of severe forms of ovarian hyperstimulation syndrome (OHSS) [3, 4].

#### **1.5 Adult Respiratory Distress Syndrome (ARDS)**

KEDBUMIN™ is indicated in conjunction with diuretics to correct fluid volume overload associated with ARDS [5].

#### **1.6 Burns**

KEDBUMIN™ is indicated after > 24 hours post burn in patients experiencing severe albumin depletion in order to favor edema re-absorption [6].

#### **1.7 Hemodialysis**

KEDBUMIN™ is indicated in patients undergoing long term dialysis or for those patients who are fluid-overloaded and cannot tolerate substantial volumes of salt solution for therapy of shock or hypotension [7].

#### **1.8 Cardiopulmonary Bypass**

KEDBUMIN™ is indicated in cardiopulmonary bypass procedures as part of the priming fluids [8, 9].

### **2 DOSAGE AND ADMINISTRATION**

#### **Intravenous Administration Only.**

#### **2.1 Dosage**

The concentration of the albumin preparation, dosage, and infusion-rate should be adjusted to the patient's individual requirements and indication.

<b>Indication</b>	<b>Dose</b>
<b>Hypovolemia</b>	Adults: Initial dose of 25 g is suggested. Pediatric dosage should be adjusted based upon on age, weight and clinical conditions
<b>Hypoalbuminemia</b>	50-75 g
<b>Prevention of Central Volume Depletion after Paracentesis due to Cirrhotic Ascites</b>	Adults: 6-8 g for every 1000 mL of ascitic fluid removed
<b>OHSS</b>	Adults:50-100 g over 4 hours and repeated at 4-12 hour intervals as necessary. 10-50 g: single infusion
<b>ARDS</b>	Adults: 25 g over 30 minutes and repeated at 8 hours for 3 days if necessary
<b>Burns</b>	The amount of albumin required to achieve adequate plasma volume and protein content should be determined by direct observation of vital signs or measurement of either plasma oncotic pressure or protein content
<b>Hemodialysis</b>	100 mL
<b>Cardiopulmonary Bypass</b>	Required dose can be estimated from the difference between the desired and actual total serum protein concentration multiplied by the estimated plasma volume (approximately 40mL per kg) times 2 (to account for extravascular deficit, which absorbs about half of the administered dose)

## 2.2 Administration

### **Intravenous administration only.**

Inspect visually for particulate matter and discoloration prior to administration, whenever the solution and container permit.

Do not dilute with sterile water for injection as hemolysis may occur (5.3).

KEDBUMIN™ may be diluted with 5% glucose or 0.9% sodium chloride.

Adjust the infusion rate to the rate of removal in plasma exchange.

Warm the product to room temperature if large volumes are to be administered.

Do not begin administration > 4 hours after the container has been entered. Discard unused material.

Record the batch number every time KEDBUMIN™ is administered to a patient.

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

KEDBUMIN™ is a sterile, aqueous solution for single dose administration intravenously. The product contains 0.25 g per mL human albumin and is available in the following presentation [10]:

- 12.5 g albumin per 50 mL single dose vial
- 25 g albumin per 100 mL single dose vial

### **4 CONTRAINDICATIONS**

KEDBUMIN™ is contraindicated in patients with a history of hypersensitivity to albumin, excipients used in its formulation, or components of the container [11].

KEDBUMIN™ is also contraindicated in severely anemic patients and in patients with heart failure.

### **5 WARNINGS AND PRECAUTIONS**

#### **5.1 Hypersensitivity**

Hypersensitivity or allergic reactions have been observed, and may in some cases progress to severe anaphylaxis. Epinephrine should be available immediately to treat any acute hypersensitivity reaction.

#### **5.2 Hypovolemia**

KEDBUMIN™ should be used with caution in conditions where hypervolemia and its consequences or hemodilution could represent a special risk (10). Examples of such conditions may include but are not limited to:

- Heart failure
- Arterial hypertension
- Esophageal varices
- Pulmonary edema
- Hemorrhagic diathesis
- Severe anemia
- Renal and post-renal anuria

#### **5.3 Hemolysis**

Do not dilute KEDBUMIN™ with Sterile Water for Injection, as this may cause hemolysis in recipients. There is a risk of potentially fatal hemolysis and acute renal failure from the use of Sterile Water for Injection as a diluent for 25% albumin<sup>12</sup>. Suitable solutions for dilution include 5% glucose and 0.9% sodium chloride (2.2).

#### **5.4 Large Volumes**

When replacing comparatively large volumes of albumin, control of coagulation and hematocrit is essential. Ensure adequate substitution of other blood constituents as coagulation factors, electrolytes, platelets, and erythrocytes.

#### **5.5 Hydration**

The colloid osmotic effect of KEDBUMIN™ 25% is approximately four times that of human blood. Therefore, when concentrated albumin is administered, ensure adequate hydration of the patient. Carefully monitor to guard against circulatory overload (10).

Hemodynamic performance should be monitored regularly. This may include arterial blood pressure

and pulse rate, central venous pressure, pulmonary artery occlusion pressure, urine output, electrolyte levels, and hematocrit/hemoglobin.

## **5.6 Infectious Diseases**

Because KEDBUMIN™ is derived from human blood, it may carry a risk of transmitting infectious agents, e.g., viruses, and theoretically, the Creutzfeldt-Jakob disease (CJD) agent. No cases of transmission of viral diseases or CJD have ever been identified for KEDBUMIN.

ALL infections suspected by a physician possibly to have been transmitted by this product should be reported by the physician or other healthcare provider to Kedrion at 1-855-427-6378.

See also **PATIENT COUNSELING INFORMATION(17)**.

## **6 ADVERSE REACTIONS**

### **6.1 General**

The most common adverse reactions include flushing, urticaria, fever, chills, nausea, vomiting, tachycardia and hypotension. These reactions normally disappear when the infusion rate is slowed or stopped.

If a severe reaction such as shock or anaphylaxis occurs, the infusion should be stopped and appropriate treatment initiated.

## **7 DRUG INTERACTIONS**

KEDBUMIN™ should not be mixed with other medicinal products including blood and blood components, but can be administered concomitantly with other parenterals such as whole blood, plasma, saline, glucose or sodium lactate when medically necessary.

KEDBUMIN™ should not be mixed with protein hydrolysates or solutions containing alcohol since these combinations may cause protein precipitation.

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

Pregnancy Category C. Animal reproductive studies using KEDBUMIN™ have not been conducted. It is also not known whether KEDBUMIN™ can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. KEDBUMIN™ should be given to a pregnant woman only if necessary.

### **8.4 Pediatric Use**

The adult dose may be given in children 12-16 years of age. Use of KEDBUMIN™ in children less than 12 years of age has not been clinically evaluated. If administered to children the dosage will vary with the clinical state and body weight of the individual. Typically, a dose one-fourth to one-half the adult dose may be administered. The usual rate of administration in children should be one-fourth the adult rate. Physicians should weigh the risks and benefits of KEDBUMIN™ in the pediatric population.

## **10 OVERDOSAGE**

Hypervolemia may occur if the dosage and rate of infusion are too high. At the first clinical sign of circulatory overload, e.g. headache, dyspnea, jugular venous congestion, increased blood pressure, raised central venous pressure, or pulmonary edema, the infusion should be stopped and hemodynamic parameters carefully monitored. Additionally, diuresis or cardiac output should be increased in

accordance with the severity of the clinical situation (5.2).

## 11 DESCRIPTION

KEDBUMIN™ is a sterile, aqueous solution for single dose intravenous administration. The product contains 0.25 g per mL human albumin and is prepared by cold ethanol fractionation from pooled human plasma obtained from venous blood at FDA-licensed facilities located in the USA. Intermediate source material (albumin paste) is obtained from a U.S. licensed manufacturer. The colloid osmotic effect of KEDBUMIN™ is approximately four times that of blood plasma.

KEDBUMIN™ is a clear, slightly viscous liquid, with a yellow, amber, or green tint. The product is stabilized by the addition of 0.08 mmol sodium caprylate and 0.08 mmol sodium acetyltryptophan per gram of albumin. Additionally, each liter of material contains 130-160 mEq of sodium ion and ≤ 200 µg of aluminum. The product contains no preservatives.

KEDBUMIN™ is heated for ten hours at 60°C. The KEDBUMIN manufacturing process results in viral reduction in in vitro studies (see table below). These reductions are achieved through a combination of process steps including Cohn fractionation and final container heat treatment.

Manufacturing Step	Mean Reduction Factor (log10)						
	Enveloped viruses			Non enveloped viruses			
	HIV-1	BVDV	PRV	REO	PPV	HAV	EMCV
Fractionation of Effluent I to Effluent II +III	3.4	3.5	3.9	2.1	1.0	1.4	
Fractionation of Effluent IV-1 to Effluent IV-4							3.7
Ethanol inactivation during fraction V precipitation	>3.71		>3.38				
Depth Filtration of Fraction V suspension	3.4		≥3.4	4.9	4.2	2.0	
Generation of Albumin paste		1.5					
Heat treatment	≥6.06	>5.17	>5.07	4.62		>5.0	
<b>Overall Reduction Factor</b>	<b>≥16.57</b>	<b>&gt;10.17</b>	<b>≥15.75</b>	<b>11.62</b>	<b>5.2</b>	<b>&gt;8.4</b>	<b>3.7</b>

HIV-1: Human

Immunodeficiency Virus

Type 1

BVDV: Bovine Viral

Diarrhoea Virus

PRV: Pseudorabies Virus

REO: Reovirus Type 3

PPV: Porcine Parvovirus

HAV: Hepatitis A Virus

EMCV:

Encephalomyocarditis virus

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Human albumin is not a glycoprotein. It has the lowest molecular weight (66,241 Daltons) of all plasma proteins. Because of its three dimensional structure, solutions of albumin have a lower viscosity than solutions of other plasma proteins. This is important since work performed by the heart depends in part on the viscosity of blood. Human albumin accounts quantitatively for more than half of the total proteins in the circulation (by weight) and represents approximately 10 % of the protein synthesized in the liver.

Approximately 40% of albumin is contained in the circulation. The remainder is located in the extravascular space of tissues, principally muscle, skin, and intestine.

KEDBUMIN 25% has a hyperoncotic effect.

A major function of albumin is its role in osmotic regulation. Albumin is responsible for 75% of normal oncotic pressure within the intravascular space [13, 14]. Other physiological functions include binding and transport of molecules (hormones, enzymes, drugs and toxins); free radical scavenging; hemostatic effects (platelet function inhibition and antithrombotic effects); and capillary membrane permeability [14].

### 12.3 Pharmacokinetics

Under normal conditions, the total exchangeable albumin pool is 4-5 g per kg body weight, of which 40-45% is present intravascularly and 55-60% is in the extravascular space. Increased capillary permeability will alter albumin kinetics and abnormal distribution may occur in conditions such as severe burns or septic shock.

Under normal conditions, the half-life of albumin is approximately 19 days. The balance between synthesis and breakdown is normally achieved by feed-back regulation. Elimination is predominantly intracellular and due to lysosomal proteases. In healthy subjects, less than 10% of infused albumin leaves the intravascular compartment during the first two hours following infusion. There is considerable individual variation in the effect on plasma volume. In some patients plasma volume can remain elevated for several hours. However, in critically ill patients, albumin can leak out of the vascular space in substantial amounts at an unpredictable rate.

## 15 REFERENCES

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2. Gines A, Fernandez-Esparrach G, Monescillo A, et al. Randomized trial comparing albumin, dextran 70, and polygeline in cirrhotic patients with ascites treated by paracentesis. *Gastroenterology.* Oct 1996;111(4):1002-1010.
3. Aboulghar M, Evers JH, Al-Inany H. Intravenous albumin for preventing severe ovarian hyperstimulation syndrome: a Cochrane review. *Hum Reprod.* Dec 2002;17(12):3027-3032.
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- bypass surgery: a meta-analysis of postoperative bleeding. *Ann Thorac Surg.* Aug 2001;72(2):527-533; discussion 534.
10. Gerety RJ, Aronson DL. Plasma derivatives and viral hepatitis. *Transfusion.* Sep-Oct 1982;22(5):347-351.
  11. Gellis SS, Neefe JR, et al. Chemical, clinical, and immunological studies on the products of human plasma fractionation; inactivation of the virus of homologous serum hepatitis in solutions of normal human serum albumin by means of heat. *J Clin Invest.* Mar 1948;27(2):239-244.
  12. Pierce LR, Gaines A, Finlayson JS, Varricchio F, Epstein JS. Hemolysis and acute renal failure due to the administration of albumin diluted in sterile water. *Transfusion.* Jan 1999;39(1):110-111.
  13. Doweiko JP, Nompleggi DJ. Role of albumin in human physiology and pathophysiology. *Jpen.* Mar-Apr 1991;15(2):207-211.
  14. Mendez CM, McClain CJ, Marsano LS. Albumin therapy in clinical practice. *Nutr Clin Pract.* Jun 2005;20(3):314-320.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

KEDBUMIN™ is supplied as a sterile, aqueous solution for single dose intravenous administration containing 0.25 g per mL human albumin. It is available in the following glass vial size:

50 mL vial 25% (NDC 76179-025-01) is packaged in one carton (NDC 76179-025-02)

100 mL vial 25% (NDC 76179-025-03) is packaged in one carton (NDC 76179-025-04)

### Storage

Do not use KEDBUMIN™ after the expiration date which is stated on the carton and label after “EXP.” The expiration date refers to the last day of that month.

Do not store above 30°C.

Keep the vial stored in the outer carton in order to protect from light.

Do not freeze.

## 17 PATIENT COUNSELING INFORMATION

Inform patients being treated with KEDBUMIN about the potential risks and benefits with its use (6). Discontinue immediately if allergic symptoms or cardiocirculatory overload occur (e.g. skin rashes, hives, itching, breathing difficulties, coughing, nausea, vomiting, fall in blood pressure, increased heart rate).

Inform patients that KEDBUMIN is a derivative of human plasma and may contain infectious agents that cause disease (e.g., viruses, and theoretically, CJD agent). Inform patients that the risk that KEDBUMIN may transmit an infectious agent has been reduced by screening plasma donors for prior exposure for certain viruses, by testing the donated plasma for certain virus infections, and by inactivating and/or removing certain viruses during manufacturing (5).

### Distributed by:

Kedrion Biopharma, Inc.  
Parker Plaza, 400 Kelby Street  
Fort Lee, NJ 07024  
United States

### Manufactured by:

Kedrion S.p.A.  
Via Provinciale Loc. Bolognana  
55027 Galliciano (Lucca)  
Italy

Phone: +39 0583 1969 1  
Fax: +39 0583 1969 981  
U.S. License No. 1851

**PACKAGE LABEL**

**ALBUMIN(HUMAN) U.S.P.**

**KEDBUMIN 25% 12.5 g 50 mL**

**NDC 7617902501**

**Rx only**

**Precautions:** Do not freeze.

**Instructions:** The patient and physician should discuss the risks and benefits before using this product. For information on directions of administration, see the enclosed insert.

**Contents:**

Each 50 mL contains 12.5 g of Albumin (Human) in aqueous diluent. The solution is hyperoncotic. Sodium range 130-160 milliequivalents per liter.

Contains no preservative.

Heat treated at 60° C for 10 hours.

**Distributed by:**

Kedrion Biopharma, Inc. Parker Plaza,  
400 Kelby Street Fort Lee, NJ 07024  
United States

**Manufactured by:**

Kedrion S.p.A  
55027  
Bolognana, Gallicano  
(Lucca) Italy

U.S. License No.1851

**Keep the vial in the outer carton in order to protect from light. Store at temperatures not exceeding 30° C.**

**DO NOT USE IF TURBID. DO NOT BEGIN ADMINISTRATION MORE THAN 4 HOURS AFTER THE CONTAINER HAS BEEN ENTERED.**

**25%**

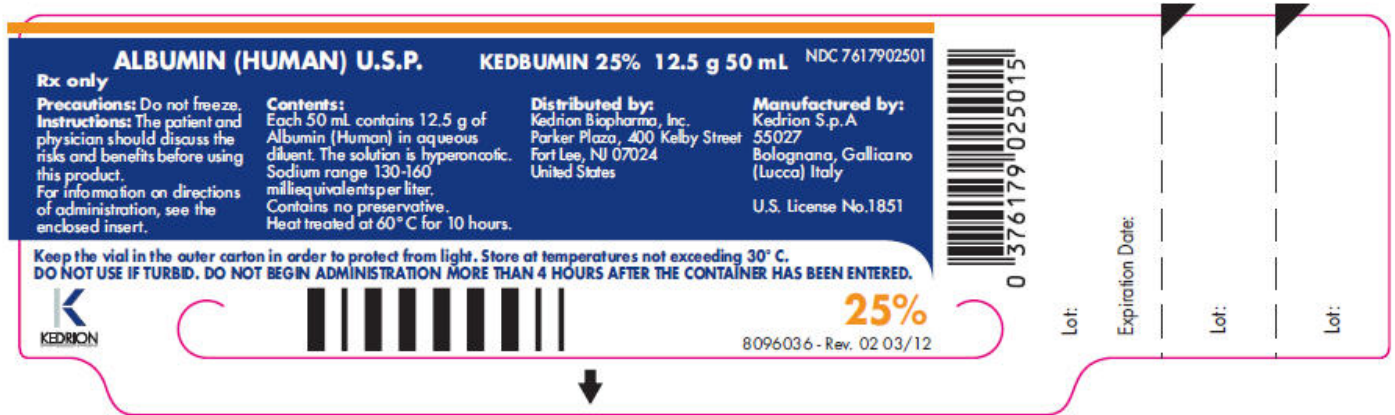
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Expiration Date:

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**NDC 7617902502**

**Albumin (Human) U.S.P.  
KEDBUMIN 25%  
Solution 12.5 g 50 mL**

**Store at temperatures not exceeding 30° C**

**KEDRION**

**25%**

**Rx Only**

**Precautions:**

Do not use KEDBUMIN 25% after the expiration date which is stated on the carton and label after "EXP." The expiration date refers to the last date of that month.

Do not store above 30°C.

Keep the vial stored in the outer carton in order to protect from light.

Do not freeze.

**Instructions:**

The patient and physician should discuss the risks and benefits before using this product. For information on directions of administration, see the enclosed insert.

**DO NOT USE IF TURBID.**

**DO NOT BEGIN ADMINISTRATION 4 HOURS AFTER THE CONTAINER HAS BEEN ENTERED.**

**Contents:**

One 50 mL vial containing Albumin (Human) U.S.P. KEDBUMIN 25%

Each 50 mL contains 12.5 g of Albumin (Human) in aqueous diluent.

The solution is hyperoncotic.

Sodium range 130 – 160 milliequivalents per liter.

Stabilized with 0.08 millimole sodium caprylate and 0.08 millimole acetyltryptophan per gram of albumin

Contains no preservative

Heat treated at 60°C for 10 hours for viral inactivation

**Distributed by:**

Kedrion Biopharma, Inc.  
Parker Plaza, 400 Kelby Street  
Fort Lee, NJ 07024  
United States

**Manufactured by:**

Kedrion S.p.A.  
55027  
Bolognana, Galliciano (Lucca) Italy

U.S. License No. 1851

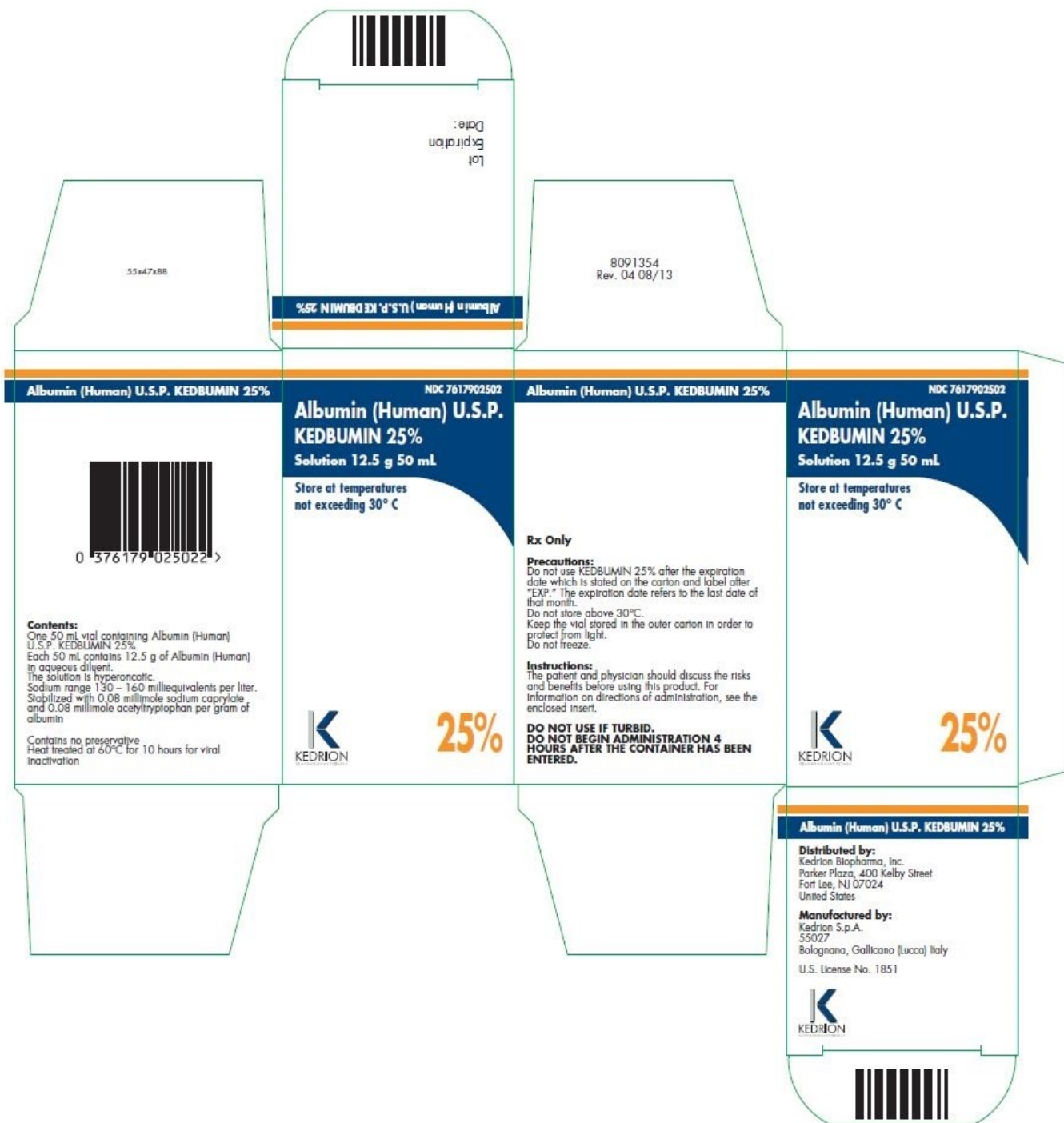
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Rev. 04 08/13



## KEDBUMIN

albumin (human) injection, solution

### Product Information

<b>Product Type</b>	PLASMA DERIVATIVE	<b>Item Code (Source)</b>	NDC:76 179-025
<b>Route of Administration</b>	INTRAVENOUS		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
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ALBUMIN (HUMAN) (UNII: ZIF514RVZR) (ALBUMIN (HUMAN) - UNII:ZIF514RVZR)	ALBUMIN (HUMAN)	12.5 g in 50 mL
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### Product Characteristics

<b>Color</b>	YELLOW (almost clear and colourless) , GREEN (almost clear and colourless)	<b>Score</b>	
<b>Shape</b>		<b>Size</b>	
<b>Flavor</b>		<b>Imprint Code</b>	
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:76 179-025-02	1 in 1 CARTON		
1	NDC:76 179-025-01	50 mL in 1 VIAL, GLASS		
2	NDC:76 179-025-04	1 in 1 CARTON		
2	NDC:76 179-025-03	100 mL in 1 VIAL		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA125384	09/15/2011	

**Labeler** - Kedrion S.p.A (339096023)

### Establishment

Name	Address	ID/FEI	Business Operations
Kedrion S.p.A		339096023	MANUFACTURE(76 179-025)

Revised: 8/2012

Kedrion S.p.A