The PROLASTIN DIRECT Program: The Confidence of Ongoing Support

Take comfort in knowing that PROLASTIN-C LIQUID and the PROLASTIN DIRECT program will be there for you, supporting you every step of the way.

Learn more at www.prolastin.com.

Starting therapy was seamless, thanks to the PROLASTIN DIRECT program.

—Steve M., actual patient since 2007

Starting therapy was seamless, thanks to the PROLASTIN DIRECT program.

—Steve M., actual patient since 2007
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Steve M., his wife Ellen, and their dog Pepe. Steve has been on therapy since 2007.
Welcome to the PROLASTIN DIRECT® Program

The personalized support program for patients with alpha-1 who are taking PROLASTIN®-C LIQUID (alpha1-proteinase inhibitor [human])

Being diagnosed with alpha1-antitrypsin deficiency (AL-fa / one / an-tee-TRIP-sin / de-FISH-an-see), or alpha-1, can be overwhelming for anyone. Because you have been prescribed PROLASTIN-C LIQUID, you are automatically enrolled in the PROLASTIN DIRECT program. This program provides you with a team dedicated to your alpha-1 care.

It is important to know that there is a lot you can do to manage your alpha-1. It is also important to remember that you are not alone. The PROLASTIN DIRECT program will be there to support you every step of the way.

PROLASTIN®-C LIQUID is an alpha1-proteinase inhibitor (human) (alpha1-PI) indicated for chronic augmentation and maintenance therapy in adults with clinical evidence of emphysema due to severe hereditary deficiency of alpha1-PI (alpha1-antitrypsin deficiency).

Please see Important Safety Information about PROLASTIN-C LIQUID on page 9, and refer to enclosed full Prescribing Information for complete prescribing details.

This brochure will walk you through the services, resources, and ongoing support you can expect to receive from your dedicated PROLASTIN DIRECT program team.
Alpha₁-antitrypsin deficiency, or alpha-1, is a rare genetic disease often called “genetic COPD” because it can be passed down through families. If you have alpha-1, your body does not make enough alpha₁-antitrypsin, a protein that protects your lungs from infections and other diseases that can reduce lung function.

PROLASTIN®-C LIQUID: The Trusted Alpha-1 Therapy

PROLASTIN-C LIQUID is the #1 prescribed augmentation therapy, trusted by patients with alpha-1 and their doctors for more than 25 years. When given as prescribed by your doctor, PROLASTIN-C LIQUID has been proven to effectively raise the alpha₁-antitrypsin levels in patients with alpha-1.

PROLASTIN-C LIQUID:

- Offers the convenience of receiving your infusion at home, work, an infusion center, and even when you are traveling
- Involves a weekly infusion that takes approximately 15 minutes when given at a recommended infusion rate of 0.08 mL/kg/min

The overall frequency of adverse events was similar between PROLASTIN-C LIQUID and lyophilized PROLASTIN-C, and no adverse events led to treatment withdrawal. The most common adverse reactions during PROLASTIN-C LIQUID clinical trials in >5% of subjects were diarrhea and fatigue, each of which occurred in 2 subjects (6%).
The PROLASTIN DIRECT® Program Will Support You Every Step of the Way

Because you have been prescribed PROLASTIN-C Liquid, you are automatically enrolled in the PROLASTIN DIRECT program.

The PROLASTIN DIRECT program is a comprehensive patient support program developed by Grifols. This unique program is dedicated to providing unmatched personalized support to patients with alpha-1 taking PROLASTIN-C LIQUID.

The program is managed by Dohmen Life Science Services (Dohmen), the specialty pharmacy that fills PROLASTIN-C LIQUID prescriptions. In addition, through the PROLASTIN DIRECT program, all patients are directly connected with AlphaNet®, which provides support from specially trained alpha-1 patients.

AlphaNet is a not-for-profit organization of Alphas Serving Alphas®, through which patients with alpha-1 can get the support they need from someone who is also living with alpha-1. These expert AlphaNet coordinators provide ongoing support through monthly follow-up calls. See page 10 to learn more.

Please see Important Safety Information about PROLASTIN-C LIQUID on page 9, and refer to enclosed full Prescribing Information for complete prescribing details.

—Lynn L., actual patient since 2000
Once the PROLASTIN DIRECT team receives your prescription from your doctor, they will call you within 24 hours. Your caller ID may display “Unknown Caller,” “Unavailable Caller,” or “800-305-7881.” Please answer the call, or call back as soon as possible, to take the next step.

The PROLASTIN DIRECT® Program Provides Ongoing Support

Your dedicated PROLASTIN DIRECT program Patient Service Coordinator is the primary point of contact you can rely on for everything related to your treatment. Alpha-1–expert nurses and pharmacists are available to answer any questions you may have, 24 hours a day, 7 days a week.

The PROLASTIN DIRECT program provides you with a team dedicated to alpha-1 care that is always there for you.

The PROLASTIN DIRECT program provides the following at no additional cost to you:

- Infusion coordination with a certified alpha-1–trained registered nurse
- Pharmacy services, supplies, and delivery
- Disease management through AlphaNet®
- 24/7 access to alpha-1–expert nurses and pharmacists
The PROLASTIN DIRECT program handles the details of your infusion.

Take comfort in knowing that the PROLASTIN DIRECT program handles the details of your infusion.

Shipping your medicine, scheduling your infusion, and, often, administering your infusion, are all handled by the PROLASTIN DIRECT program.

- The PROLASTIN DIRECT program works directly with your insurance company to secure and coordinate your infusion location. This may be at home, at work, at an infusion center, and even when you are traveling.
- All PROLASTIN®-C LIQUID (alpha₁-proteinase inhibitor [human]) infusions are performed by a certified trained nurse.
- The PROLASTIN DIRECT program reviews your insurance on a yearly basis to make sure you have the coverage you need.

Please see Important Safety Information about PROLASTIN-C LIQUID on page 9, and refer to enclosed full Prescribing Information for complete prescribing details.
The PROLASTIN DIRECT® Assist Program May Help With Your Copay

Patients taking PROLASTIN®-C LIQUID (alpha₁-proteinase inhibitor [human]) who have commercial insurance may qualify for a $0 copay through the PROLASTIN DIRECT Assist program. The program may also help with the cost of the deductible, and can provide up to $6600 per year every year in financial assistance for eligible patients.

In addition, the PROLASTIN DIRECT program reviews your insurance on a yearly basis to make sure you have the coverage you need.

The PROLASTIN DIRECT Assist program helps qualified patients who are prescribed PROLASTIN-C LIQUID start and stay on therapy.

Please see Important Safety Information about PROLASTIN-C LIQUID on page 9, and refer to enclosed full Prescribing Information for complete prescribing details.

—Lynn L., actual patient since 2000
Important Safety Information

PROLASTIN®-C LIQUID is an alpha₁-proteinase inhibitor (human) (alpha₁-PI) indicated for chronic augmentation and maintenance therapy in adults with clinical evidence of emphysema due to severe hereditary deficiency of alpha₁-PI (alpha₁-antitrypsin deficiency).

Limitations of Use

• The effect of augmentation therapy with any alpha₁-PI, including PROLASTIN-C LIQUID, on pulmonary exacerbations and on the progression of emphysema in alpha₁-PI deficiency has not been conclusively demonstrated in randomized, controlled clinical trials

• Clinical data demonstrating the long-term effects of chronic augmentation or maintenance therapy with PROLASTIN-C LIQUID are not available

• PROLASTIN-C LIQUID is not indicated as therapy for lung disease in patients in whom severe alpha₁-PI deficiency has not been established

PROLASTIN-C LIQUID is contraindicated in immunoglobulin A (IgA)-deficient patients with antibodies against IgA or patients with a history of anaphylaxis or other severe systemic reaction to alpha₁-PI products.

Hypersensitivity reactions, including anaphylaxis, may occur. Monitor vital signs and observe the patient carefully throughout the infusion. If hypersensitivity symptoms occur, promptly stop PROLASTIN-C LIQUID infusion and begin appropriate therapy.

Because PROLASTIN-C LIQUID is made from human plasma, it may carry a risk of transmitting infectious agents, eg, viruses, the variant Creutzfeldt-Jakob disease (vCJD) agent, and, theoretically, the Creutzfeldt-Jakob disease (CJD) agent. This also applies to unknown or emerging viruses and other pathogens.

The most common adverse reactions during PROLASTIN-C LIQUID clinical trials in >5% of subjects were diarrhea and fatigue, each of which occurred in 2 subjects (6%).

Please see accompanying full Prescribing Information for PROLASTIN-C LIQUID.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch or call 1-800-FDA-1088.
Understanding Your Support

The PROLASTIN DIRECT® program was developed by Grifols and involves a close partnership with 2 other alpha-1–expert organizations that work exclusively with patients with alpha-1: Dohmen and AlphaNet®.

Grifols manufactures PROLASTIN®-C LIQUID (alpha₁-proteinase inhibitor [human]) and developed the PROLASTIN DIRECT program. Grifols is a global healthcare company that has worked to improve the health and well-being of people around the world for more than 75 years. Grifols produces essential plasma medicines used to treat rare, chronic, and, at times, life-threatening conditions like alpha-1.

When you are prescribed PROLASTIN-C LIQUID, your doctor sends your prescription to Dohmen, the only specialty pharmacy that fills PROLASTIN-C LIQUID prescriptions and manages the PROLASTIN DIRECT program. After receiving your prescription, Dohmen will call you within 24 hours to verify your insurance, answer any questions you may have, and complete your prescription processing.

Dohmen is a patient-centered service organization composed of pharmacy and insurance specialists. Their PROLASTIN DIRECT program team members are 100% dedicated to patients with alpha-1 receiving PROLASTIN-C LIQUID therapy. Dohmen has worked with nearly 1000 insurance plans on behalf of patients like you.

During your first PROLASTIN DIRECT program call, you will be automatically connected to AlphaNet so you can speak with an actual alpha-1 patient who knows what you are going through. AlphaNet is a not-for-profit organization of Alphas Serving Alphas®, through which patients with alpha-1 can get the support they need from someone who is also living with alpha-1. These expert AlphaNet Coordinators provide ongoing support through monthly follow-up calls.

Grifols
www.grifolsusa.com

Dohmen Life Science Services (DLSS, or Dohmen)
www.dlss.com
Toll-free: (866) 336-1336

AlphaNet
www.alphanet.org
Toll-free: (800) 577-2638
Lynn L. has been on therapy since 2000. Starting therapy was seamless, thanks to the PROLASTIN DIRECT program. —Steve M., actual patient since 2007

Please see Important Safety Information about PROLASTIN®-C LIQUID (alpha1-proteinase inhibitor [human]) on page 9, and refer to enclosed full Prescribing Information for complete prescribing details.

Take comfort in knowing that PROLASTIN-C LIQUID and the PROLASTIN DIRECT program will be there, supporting you every step of the way.

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<table>
<thead>
<tr>
<th>PROLASTIN DIRECT Patient Service Coordinator</th>
<th>PROLASTIN DIRECT Infusion Nurse</th>
<th>AlphaNet® Coordinator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name:</td>
<td>Name:</td>
<td>Name:</td>
</tr>
<tr>
<td>Telephone:</td>
<td>Telephone:</td>
<td>Telephone:</td>
</tr>
<tr>
<td>Email:</td>
<td>Email:</td>
<td>Email:</td>
</tr>
<tr>
<td>Notes:</td>
<td>Notes:</td>
<td>Notes:</td>
</tr>
</tbody>
</table>

I should write that down:

Please see Important Safety Information about PROLASTIN-C LIQUID on page 9, and refer to enclosed full Prescribing Information for complete prescribing details.

Your Dedicated PROLASTIN DIRECT® Program Team

PROLASTIN DIRECT Patient Service Coordinator
Name:
Telephone:
Email:
Notes:

PROLASTIN DIRECT Infusion Nurse
Name:
Telephone:
Email:
Notes:

AlphaNet® Coordinator
Name:
Telephone:
Email:
Notes:

[...]
The PROLASTIN DIRECT® Program: The Confidence of Ongoing Support

Take comfort in knowing that PROLASTIN-C LIQUID and the PROLASTIN DIRECT program will be there for you, supporting you every step of the way.

Lynn L. has been on therapy since 2000.

Please see Important Safety Information about PROLASTIN®-C LIQUID (alpha1-proteinase inhibitor [human]) on page 9, and refer to enclosed full Prescribing Information for complete prescribing details.

Starting therapy was seamless, thanks to the PROLASTIN DIRECT program.

—Steve M., actual patient since 2007

Learn more at www.prolastin.com.
PROLASTIN-C LIQUID is not indicated as therapy for lung disease in patients in whom severe Alpha-1 PI deficiency has not been conclusively demonstrated in randomized, controlled clinical trials.

Clinical data demonstrating the long-term effects of chronic augmentation or maintenance therapy with PROLASTIN-C LIQUID are not available.

PROLASTIN-C LIQUID is not indicated as therapy for lung disease in patients in whom severe Alpha-1 PI deficiency has not been established.

LIMITATIONS OF USE:
- The effect of augmentation therapy with any Alpha-1 PI product, including PROLASTIN-C LIQUID, on pulmonary exacerbations and on the progression of emphysema in Alpha-1 PI deficiency has not been conclusively demonstrated in randomized, controlled clinical trials.
- Clinical data demonstrating the long-term effects of chronic augmentation or maintenance therapy with PROLASTIN-C LIQUID are not available.
- PROLASTIN-C LIQUID is not indicated as therapy for lung disease in patients in whom severe Alpha-1 PI deficiency has not been established.

For intravenous use only.

- Dose: 60 mg/kg body weight intravenously once per week. (2.1)
- Dose ranging studies using efficacy endpoints have not been performed with any Alpha-1 PI product, including PROLASTIN-C LIQUID. (2.1)

Dosage and Administration

- Because PROLASTIN-C LIQUID is made from human plasma, it may carry an increased risk of transmitting infectious agents, e.g., viruses, the variant Creutzfeldt-Jakob disease (vCJD) agent, and, theoretically, the Creutzfeldt-Jakob disease (CJD) agent. (5.2)
- History of anaphylaxis or other severe systemic reaction to Alpha-1 PI. (4)
- Severe hypersensitivity and anaphylactic reactions may occur in IgA deficient patients with antibodies against IgA. Discontinue administration of the product and initiate appropriate emergency treatment if hypersensitivity reactions occur. (5.1)
- The most common adverse reactions during PROLASTIN-C LIQUID clinical trials in > 5% of subjects were diarrhea and fatigue, each of which occurred in 2 subjects (6%). (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Grifols Therapeutics Inc. at 1-800-520-2807 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION.

ADVERSE REACTIONS

- Clinical Trials Experience
- Postmarketing Experience

USE IN SPECIFIC POPULATIONS

- Pregnancy
- Lactation
- Pediatric Use
- Geriatric Use

DESCRIPTION

- Mechanism of Action
- Pharmacodynamics
- Pharmacokinetics

NON-CLINICAL TOXICOLOGY

- Carcinogenesis, Mutagenesis, Impairment of Fertility
- Animal Toxicology and/or Pharmacology

CLINICAL STUDIES

HOW SUPPLIED/STORAGE AND HANDLING

PATIENT COUNSELING INFORMATION

*Sections or subsections omitted from the full prescribing information are not listed.
2 DOSAGE AND ADMINISTRATION
For intravenous use only.

2.1 Dose
• The recommended dose of PROLASTIN-C LIQUID is 60 mg/kg body weight administered intravenously once weekly.
• Dose ranging studies using efficacy endpoints have not been performed with any Alpha-PI product.
• The carton and the label on each vial of PROLASTIN-C LIQUID show the actual amount of functionally active Alpha-PI in milligrams (as determined by the capacity to neutralize porcine pancreatic elastase).

2.2 Preparation and Handling
1. Allow unopened PROLASTIN-C LIQUID to warm up to room temperature before administration.
2. Remove the plastic flip top from the vial.
3. Swab the exposed stopper surface with alcohol and allow to dry.
4. Inspect the PROLASTIN-C LIQUID visually for particulate matter and discoloration prior to pooling. The product may contain a few protein particles. The solution is clear, colorless or pale yellow or pale green. Do not use if the product is discolored or cloudy.
5. Pool PROLASTIN-C LIQUID from several vials to achieve the intended mg/kg body weight dose into an empty, sterile intravenous solution container using aseptic technique.
6. Keep pooled solution at room temperature for administration within three hours.

2.3 Administration
• Visually inspect parenteral drug products for particulate matter and discoloration prior to administration, whenever solution and container permit. The product may contain a few protein particles. Do not use if discolored or cloudy.
• Use a sterile 15 micron in-line filter when administering the product.
• Infuse PROLASTIN-C LIQUID separately, without mixing with other agents or diluting solutions.
• Infuse PROLASTIN-C LIQUID intravenously at 0.08 mL/kg/min as determined by patient response and comfort. The recommended dosage of 60 mg/kg takes approximately 15 minutes to infuse.

3 DOSAGE FORMS AND STRENGTHS
PROLASTIN-C LIQUID is supplied in a 1,000 mg (approximate) single-use vial containing 20 mL of solution for injection. The actual amount of functionally active Alpha-PI in milligrams is printed on the vial label and carton.

4 CONTRAINDICATIONS
PROLASTIN-C LIQUID is contraindicated in:
• IgA deficient patients with antibodies against IgA, due to the risk of severe hypersensitivity.
• Patients with a history of anaphylaxis or other severe systemic reaction to Alpha-PI.

5 WARNINGS AND PRECAUTIONS
5.1 Hypersensitivity Reactions
Hypersensitivity reactions, including anaphylaxis, may occur. Monitor vital signs and observe the patient carefully throughout the infusion. Early signs and symptoms of hypersensitivity reactions may include pruritus; generalized urticaria; flushing; swollen lips, tongue, or uvula; wheezing; tightness of the chest; dyspnea; hypotension; and syncope. If hypersensitivity symptoms occur, promptly stop PROLASTIN-C LIQUID infusion and begin appropriate therapy. Have epinephrine and other appropriate therapy available for the treatment of any acute anaphylactic or anaphylactoid reaction. [see Patient Counseling Information (17)]

PROLASTIN-C LIQUID may contain trace amounts of IgA. Patients with known antibodies to IgA, which can be present in patients with selective or severe IgA deficiency, have a greater risk of developing potentially severe hypersensitivity and anaphylactic reactions.

5.2 Transmissible Infectious Agents
Because PROLASTIN-C LIQUID is made from human plasma, it may carry a risk of transmitting infectious agents, e.g., viruses, the variant Creutzfeldt-Jakob disease (vCJD) agent, and, theoretically, the Creutzfeldt-Jakob disease (CJD) agent. This also applies to unknown or emerging viruses and other pathogens. The risk of transmission of infectious agents has been reduced by screening plasma donors for prior exposure to certain infectious agents, by testing for the presence of certain virus infections, and by including steps in the manufacturing process with the demonstrated capacity to inactivate and/or remove certain infectious agents. Despite these measures, this product may still potentially transmit disease.

Report all infections thought by a physician possibly to have been transmitted by this product to Grifols Therapeutics Inc. (1-800-520-2807).
6 ADVERSE REACTIONS

The most serious adverse reaction observed during clinical trials with PROLASTIN-C was an abdominal and extremity rash in one subject. [see Warnings and Precautions (5.1)]

The most common adverse reactions observed at a rate of > 5% in subjects receiving PROLASTIN-C LIQUID were diarrhea and fatigue, each of which occurred at a rate of 6% (two subjects each).

6.1 Clinical Trials Experience

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

One clinical trial was conducted with PROLASTIN-C LIQUID: a 16 week, multicenter, randomized, double-blind, crossover study to assess the safety, immunogenicity, and pharmacokinetic comparability of PROLASTIN-C LIQUID to PROLASTIN®-C (Alpha-1-Proteinase Inhibitor [Human]) in 32 subjects.

Adverse reactions (as defined in the footnote to Table 1) occurring in >5% of subjects during the 16 week double-blind crossover treatment period are shown in Table 1.

Table 1: Adverse Reactions Occurring in >5% of Subjects during the Double-Blinded Crossover Treatment

<table>
<thead>
<tr>
<th>Adverse Reaction*</th>
<th>PROLASTIN®-C LIQUID (N=32)</th>
<th>PROLASTIN®-C (N=31)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. of Subjects with Adverse Reaction (percentage of all subjects)</td>
<td>No. of Subjects with Adverse Reaction (percentage of all subjects)</td>
</tr>
<tr>
<td>Diarrhea</td>
<td>2 (6)</td>
<td>0</td>
</tr>
<tr>
<td>Fatigue</td>
<td>2 (6)</td>
<td>0</td>
</tr>
</tbody>
</table>

* An adverse reaction is defined as any adverse event that occurred where either a) the event was not considered “unrelated” to administration of the product, or b) the occurrence was during or within 72 hours of the end of the previous infusion of the product, or c) the investigator’s causality assessment of the event was missing or indeterminate, or d) the incidence during treatment with 1 investigational product was 130% or more of the incidence during treatment with the other investigational product.

† Source: the randomized double-blinded comparator trial of PROLASTIN-C LIQUID vs PROLASTIN-C.

Table 2 below displays the adverse reaction (defined as per Table 1) rate as a percentage of infusions received during the 16 week double-blind treatment period.

Table 2: Adverse Reaction Frequency as a Percent of All Infusions and Occurring More than Once in the PROLASTIN-C LIQUID Group during the 16 Week Double Blinded Treatment Period

<table>
<thead>
<tr>
<th>Adverse Reaction*</th>
<th>PROLASTIN®-C LIQUID No. of infusions: 252</th>
<th>PROLASTIN®-C No. of infusions: 245</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. of Adverse Reactions (percentage of all infusions)</td>
<td>No. of Adverse Reactions (percentage of all infusions)</td>
</tr>
<tr>
<td>Diarrhea</td>
<td>3 (1.2)</td>
<td>0</td>
</tr>
<tr>
<td>Fatigue</td>
<td>2 (0.8)</td>
<td>0</td>
</tr>
</tbody>
</table>

* Source: the randomized double-blinded comparator trial of PROLASTIN-C LIQUID vs PROLASTIN-C.

A total of 23 COPD exacerbations were reported for a total of 18 individual subjects. Twelve subjects (12/32, 38%) during PROLASTIN-C LIQUID treatment experienced 13 COPD exacerbations, and 9 subjects (9/31, 29%) during PROLASTIN-C treatment had 10 COPD exacerbations. Three COPD exacerbations occurred during the Follow-Up Period after PROLASTIN-C LIQUID treatment and 1 COPD exacerbation occurred in the Follow-Up period after PROLASTIN-C treatment. The overall rate of pulmonary exacerbations during treatment with either product was 1.9 exacerbations per subject-year. No exacerbation was considered to be serious, except for one event after PROLASTIN-C treatment during the Follow-Up period (due to hospitalization).

Two separate prior clinical trials were conducted with PROLASTIN-C: 1.) a 20 week, open-label, single arm safety study in 38 subjects (single-arm open-label trial), and 2.) a 16 week, randomized, double-blind, crossover pharmacokinetic comparability study vs. PROLASTIN® (Alpha-1-Proteinase Inhibitor [Human]) in 24 subjects, followed by an 8 week open-label treatment with PROLASTIN-C (randomized double-blinded comparator trial). Thus, a total of 93 subjects were exposed to PROLASTIN-C in clinical trials.

The most serious adverse reaction observed during clinical trials with PROLASTIN-C was an abdominal and extremity rash in one subject. The rash resolved subsequent to outpatient treatment with antihistamines and steroids. Two instances of a less severe, pruritic abdominal rash were observed upon rechallenge despite continued antihistamine and steroid treatment, which led to withdrawal of the subject from the trial.
Grifols assessed the randomized double-blinded comparator trial of PROLASTIN and PROLASTIN-C for adverse reactions (as defined in the footnote to Table 3) occurring during each 8 week double-blind crossover treatment period, as shown in Table 3.

**Table 3: Adverse Reactions Occurring during the First 8 Weeks of Each Double-Blinded Treatment**

<table>
<thead>
<tr>
<th>Adverse Reaction*</th>
<th>PROLASTIN®-C</th>
<th>PROLASTIN®</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. of subjects: 24</td>
<td>No. of subjects: 24</td>
</tr>
<tr>
<td>Upper respiratory tract infection</td>
<td>3 (12.5%)</td>
<td>1 (4.2%)</td>
</tr>
<tr>
<td>Headache</td>
<td>1 (4.2%)</td>
<td>2 (8.3%)</td>
</tr>
<tr>
<td>Pruritus</td>
<td>1 (4.2%)</td>
<td>0</td>
</tr>
<tr>
<td>Urticaria</td>
<td>1 (4.2%)</td>
<td>0</td>
</tr>
<tr>
<td>Nausea</td>
<td>1 (4.2%)</td>
<td>0</td>
</tr>
<tr>
<td>Peripheral edema</td>
<td>1 (4.2%)</td>
<td>0</td>
</tr>
<tr>
<td>Pyrexia</td>
<td>1 (4.2%)</td>
<td>0</td>
</tr>
</tbody>
</table>

* An adverse reaction is defined as any adverse event where either a) the incidence with PROLASTIN-C was greater than with PROLASTIN, or b) the occurrence was within 72 hours of treatment, or c) the event was otherwise considered related or possibly related to the drug.

† Source: the randomized double-blinded comparator trial

Table 4 below displays the adverse reaction (defined as per Table 3) rate as a percentage of infusions received during the 8 weeks of each double-blinded treatment.

**Table 4: Adverse Reaction Frequency as a Percent of All Infusions during the First 8 Weeks of Each Double-Blinded Infusion Treatment**

<table>
<thead>
<tr>
<th>Adverse Reaction*</th>
<th>PROLASTIN®-C</th>
<th>PROLASTIN®</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. of infusions: 188</td>
<td>No. of infusions: 192</td>
</tr>
<tr>
<td>Upper respiratory tract infection</td>
<td>3 (1.6%)</td>
<td>1 (0.5%)</td>
</tr>
<tr>
<td>Headache</td>
<td>1 (0.5%)</td>
<td>3 (1.6%)</td>
</tr>
<tr>
<td>Pruritus</td>
<td>1 (0.5%)</td>
<td>0</td>
</tr>
<tr>
<td>Urticaria</td>
<td>1 (0.5%)</td>
<td>0</td>
</tr>
<tr>
<td>Nausea</td>
<td>1 (0.5%)</td>
<td>0</td>
</tr>
<tr>
<td>Peripheral edema</td>
<td>1 (0.5%)</td>
<td>0</td>
</tr>
<tr>
<td>Pyrexia</td>
<td>1 (0.5%)</td>
<td>0</td>
</tr>
</tbody>
</table>

* Source: the randomized double-blinded comparator trial.
Table 5 below displays the adverse reactions occurring in two or more subjects during the single-arm open-label trial.

### Table 5: Adverse Reactions Occurring in Two or More Subjects (> 5%) during the 20 Week Single-Arm Open-Label Trial

<table>
<thead>
<tr>
<th>Adverse Reaction*</th>
<th>PROLASTIN®-C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. of subjects: 38</td>
</tr>
<tr>
<td></td>
<td>No. of Subjects with Adverse Reaction (percentage of all subjects)</td>
</tr>
<tr>
<td>Upper respiratory tract infection</td>
<td>6 (15.8%)</td>
</tr>
<tr>
<td>Urinary tract infection</td>
<td>5 (13.2%)</td>
</tr>
<tr>
<td>Nausea</td>
<td>4 (10.5%)</td>
</tr>
<tr>
<td>Chest pain</td>
<td>3 (7.9%)</td>
</tr>
<tr>
<td>Back pain</td>
<td>2 (5.3%)</td>
</tr>
<tr>
<td>Chills</td>
<td>2 (5.3%)</td>
</tr>
<tr>
<td>Cough</td>
<td>2 (5.3%)</td>
</tr>
<tr>
<td>Dizziness</td>
<td>2 (5.3%)</td>
</tr>
<tr>
<td>Dyspnea</td>
<td>2 (5.3%)</td>
</tr>
<tr>
<td>Headache</td>
<td>2 (5.3%)</td>
</tr>
<tr>
<td>Hot flush</td>
<td>2 (5.3%)</td>
</tr>
<tr>
<td>Oral candidiasis</td>
<td>2 (5.3%)</td>
</tr>
</tbody>
</table>

* An adverse reaction is defined as any adverse event that occurred where either a) the occurrence was within 72 hours of treatment, or b) the event was otherwise considered related or possibly related to the drug.

† Source: the single-arm, open-label trial.

Ten exacerbations of chronic obstructive pulmonary disease were reported by 8 subjects in the 24 week crossover pharmacokinetic study. During the 16 week double-blind crossover phase, 4 subjects (17%) had a total of 4 exacerbations during PROLASTIN-C treatment and 4 subjects (17%) had a total of 4 exacerbations during PROLASTIN treatment. Two additional exacerbations in 2 subjects (8%) occurred during the 8 week open-label treatment period with PROLASTIN-C. The overall rate of pulmonary exacerbations during treatment with either product was 0.9 exacerbations per subject-year.

### Immunogenicity

The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to PROLASTIN-C LIQUID with the incidence of antibodies to other products may be misleading.

In the randomized, crossover pharmacokinetic clinical trial, no immunogenicity response was observed in subjects dosed with PROLASTIN-C LIQUID or PROLASTIN-C.

In the single-arm, open-label safety clinical trial, three treatment naïve subjects out of 36 subjects evaluated developed antibody to Alpha-PI at week 24 after receiving PROLASTIN®-C (Alpha-1-Proteinase Inhibitor [Human]). A fourth subject (non-naive) was positive prior to and after receiving PROLASTIN-C, but levels were unchanged during the study. None of the four antibody specimens was able to neutralize the protease inhibitor capacity of PROLASTIN-C. In the randomized, crossover pharmacokinetic clinical trial comparing PROLASTIN-C and PROLASTIN® (Alpha-1-Proteinase Inhibitor [Human]), none of 24 subjects developed antibodies to PROLASTIN-C.
6.2 Postmarketing Experience
Because postmarketing reporting of adverse reactions is voluntary and from a population of uncertain size, it is not always possible to reliably estimate the frequency of these reactions or establish a causal relationship to product exposure. Expected postmarketing experience for PROLASTIN®-C LIQUID (Alpha1-Proteinase Inhibitor [Human]) is based on the reactions reported for PROLASTIN-C. The reactions which have been chosen for inclusion due to their seriousness, frequency of reporting, possible causal connection to PROLASTIN-C, or a combination of these factors, are:
- **General/Body as a Whole:** Fatigue, malaise, influenza-like illness, pain, asthenia
- **Immune system:** Hypersensitivity including anaphylactoid/anaphylactic reactions
- **Cardiovascular:** Tachycardia
- **Musculoskeletal:** Arthralgia, myalgia
- **Gastrointestinal:** Vomiting, diarrhea
- **Investigation:** Blood pressure increased

8 USE IN SPECIFIC POPULATIONS
8.1 Pregnancy
Risk Summary
There are no data with PROLASTIN-C LIQUID use in pregnant women to inform a drug-associated risk. Animal reproduction studies have not been conducted with PROLASTIN-C LIQUID. It is not known whether PROLASTIN-C LIQUID can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. PROLASTIN-C LIQUID should be given to a pregnant woman only if clearly needed. In the U.S. general population, the estimated background risk of major birth defect and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

8.2 Lactation
Risk Summary
There is no information regarding the presence of PROLASTIN-C LIQUID in human milk, the effects on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for PROLASTIN-C LIQUID and any potential adverse effects on the breastfed infant from PROLASTIN-C LIQUID or from the underlying maternal conditions.

8.4 Pediatric Use
Safety and effectiveness in the pediatric population have not been established.

8.5 Geriatric Use
Clinical studies of PROLASTIN-C LIQUID did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. As for all patients, dosing for geriatric patients should be appropriate to their overall situation.

11 DESCRIPTION
PROLASTIN-C LIQUID is a sterile concentrate of Alpha1-PI for intravenous infusion. The solution is clear, colorless or pale yellow or pale green. Each vial of PROLASTIN-C LIQUID contains approximately 1,000 mg of functionally active Alpha1-PI as determined by capacity to neutralize porcine pancreatic elastase. The specific activity of PROLASTIN-C LIQUID is ≥ 0.7 mg functional Alpha1-PI per mg of total protein. PROLASTIN-C LIQUID has a purity of ≥ 90% Alpha1-PI (Alpha1-PI protein/total protein). PROLASTIN-C LIQUID has a pH of 6.6–7.4, a sodium phosphate content of 0.013-0.025 M, and is stabilized with 0.20-0.30 M of alanine. The total sodium concentration is ≤ 100 mEq/L. PROLASTIN-C LIQUID contains no preservative. PROLASTIN-C LIQUID is produced from pooled human plasma through modifications of the PROLASTIN process using purification by polyethylene glycol (PEG) precipitation, anion exchange chromatography, and cation exchange chromatography. All Source Plasma used in the manufacture of PROLASTIN-C LIQUID is non-reactive (negative) by FDA-licensed serological test methods for hepatitis B surface antigen (HBsAg) and antibodies to hepatitis C virus (HCV) and human immunodeficiency virus types 1 and 2 and negative by FDA-licensed Nucleic Acid Technologies (NAT) for HCV and human immunodeficiency virus type 1 (HIV-1). In addition, all Source Plasma is negative for hepatitis B virus (HBV) by either an FDA-licensed or investigational NAT assay. The goal of the investigational HBV NAT test is to detect low levels of viral nucleic acid; however, the significance of a negative result for the investigational HBV NAT test has not been established. By in-process NAT, all Source Plasma is negative for hepatitis A virus (HAV). As a final plasma safety step, all plasma manufacturing pools are tested by serological test methods and NAT.
To evaluate further the virus safety profile of PROLASTIN-C LIQUID, in vitro studies have been conducted to validate the capacity of the manufacturing process to reduce the infectious titer of a wide range of viruses with diverse physicochemical properties. These studies evaluated the inactivation/removal of clinically relevant viruses, including human immunodeficiency virus type 1 (HIV-1) and hepatitis A virus (HAV), as well as the following model viruses: bovine viral diarrhea virus (BVDV), a surrogate for hepatitis C virus; pseudorabies virus (PRV), a surrogate for large enveloped DNA viruses (e.g., herpes viruses); vesicular stomatitis virus (VSV), a model for enveloped viruses; reovirus type 3 (Reo3), a non-specific model for non-enveloped viruses; and porcine parvovirus (PPV), a model for human parvovirus B19.

The PROLASTIN-C LIQUID manufacturing process has several steps (Cold Ethanol Fractionation, PEG Precipitation, and Depth Filtration) that are important for purifying α1-PI as well as removing potential virus contaminants. Two additional steps, Solvent/Detergent Treatment and 15 nm Virus Removal Nanofiltration, are included in the process as dedicated pathogen reduction steps. The Solvent/Detergent Treatment step effectively inactivates enveloped viruses (such as HIV-1, VSV, HBV, and HCV). The 15 nm Virus Removal Nanofiltration step has been implemented to reduce the risk of transmission of enveloped and non-enveloped viruses as small as 18 nm. Table 6 presents the virus reduction capacity of each process step and the accumulated virus reduction for the process as determined in viral validation studies in which virus was deliberately added to a process model in order to study virus reduction. In addition, the Solvent/Detergent Treatment step inactivates \( \geq 5.4 \log_{10} \) of West Nile virus, a clinically relevant enveloped virus.

Table 6: Virus Reduction (Log_{10}) for the PROLASTIN®-C LIQUID Manufacturing Process

<table>
<thead>
<tr>
<th>Process Step</th>
<th>Enveloped Viruses</th>
<th>Non-enveloped Viruses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HIV-1</td>
<td>BVDV</td>
</tr>
<tr>
<td>Cold Ethanol Fractionation</td>
<td>1.5</td>
<td>1.7</td>
</tr>
<tr>
<td>PEG Precipitation</td>
<td>4.3</td>
<td>2.8</td>
</tr>
<tr>
<td>Depth Filtration</td>
<td>(\geq 4.7)</td>
<td>4.0</td>
</tr>
<tr>
<td>Solvent/Detergent Treatment</td>
<td>(\geq 6.2)</td>
<td>(\geq 4.6)</td>
</tr>
<tr>
<td>15 nm Virus Removal Nanofiltration</td>
<td>(\geq 6.9)</td>
<td>(\geq 4.7)</td>
</tr>
<tr>
<td>Accumulated Virus Reduction</td>
<td>(\geq 23.6)</td>
<td>(\geq 17.8)</td>
</tr>
</tbody>
</table>

* Not determined. VSV inactivation and/or removal was only determined for the Solvent/Detergent Treatment and 15 nm Virus Removal Nanofiltration steps.
† Not applicable. This step is only effective against enveloped viruses.

Additionally, the manufacturing process was investigated for its capacity to decrease the infectivity of an experimental agent of transmissible spongiform encephalopathy (TSE), considered as a model for the variant Creutzfeldt-Jakob disease (vCJD) and Creutzfeldt-Jakob disease (CJD) agents. Studies of the PROLASTIN-C LIQUID manufacturing process demonstrate that a minimum of 6 log_{10} reduction of TSE infectivity is achieved. These studies provide reasonable assurance that low levels of vCJD/CJD agent infectivity, if present in the starting material, would be removed.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

α1-PI deficiency is an autosomal, co-dominant, hereditary disorder characterized by low serum and lung levels of α1-PI. Smoking is an important risk factor for the development of emphysema in patients with α1-PI deficiency. Because emphysema affects many, but not all individuals with the more severe genetic variants of α1-PI deficiency, augmentation therapy with α1-PI is indicated only in patients with severe α1-PI deficiency who have clinically evident emphysema. Only some α1-PI alleles are associated with clinically apparent α1-PI deficiency. Approximately 95% of all severely deficient patients are homozygous for the PiZ allele. Individuals with the PiZZ variant typically have serum α1-PI levels less than 35% of the average normal level. Individuals with the Pi(null)(null) variant have undetectable α1-PI protein in their serum. Individuals with these low serum α1-PI levels, i.e., less than 11 µM, have a markedly increased risk for developing emphysema over their lifetimes. In addition, PiSZ individuals, whose serum α1-PI levels range from approximately 9 to 23 µM, are considered to have moderately increased risk for developing emphysema, regardless of whether their serum α1-PI levels are above or below 11 µM.
Augmenting the levels of functional protease inhibitor by intravenous infusion is an approach to therapy for patients with Alpha-PI deficiency. The intended theoretical goal is to provide protection to the lower respiratory tract by correcting the imbalance between neutrophil elastase and protease inhibitors. Whether augmentation therapy with any Alpha-PI product actually protects the lower respiratory tract from progressive emphysematous changes has not been demonstrated in adequately powered, randomized controlled, clinical trials. Although the maintenance of blood serum levels of Alpha-PI (antigenically measured) above 11 µM has been historically postulated to provide therapeutically relevant anti-neutrophil elastase protection, this has not been proven. Individuals with severe Alpha-PI deficiency have been shown to have increased neutrophil and neutrophil elastase concentrations in lung epithelial lining fluid compared to normal PiMM individuals, and some PiSZ individuals with Alpha-PI above 11 µM have emphysema attributed to Alpha-PI deficiency. These observations underscore the uncertainty regarding the appropriate therapeutic target serum level of Alpha-PI during augmentation therapy.

The pathogenesis of emphysema is understood as described in the "protease-antiprotease imbalance" model. Alpha-PI is understood to be the primary antiprotease in the lower respiratory tract, where it inhibits neutrophil elastase (NE). Normal healthy individuals produce sufficient Alpha-PI to control the NE produced by activated neutrophils and are thus able to prevent inappropriate proteolysis of the lung tissue by NE. Conditions that increase neutrophil accumulation and activation in the lung, such as respiratory infection and smoking, will in turn increase levels of NE. However, individuals who are severely deficient in endogenous Alpha-PI are unable to maintain an appropriate antiprotease defense, and, in addition, they have been shown to have increased lung epithelial lining fluid neutrophil and NE concentrations. Because of these factors, many (but not all) individuals who are severely deficient in endogenous Alpha-PI are subject to more rapid proteolysis of the alveolar walls leading to chronic lung disease. PROLASTIN-C LIQUID serves as Alpha-PI augmentation therapy in the patient population with severe Alpha-PI deficiency and emphysema, acting to increase and maintain serum and lung epithelial lining fluid levels of Alpha-PI.

12.2 Pharmacodynamics

Chronic augmentation therapy with the predecessor product, PROLASTIN, administered weekly at a dose of 60 mg/kg body weight, results in increased levels of Alpha-PI and functional anti-neutrophil elastase capacity in the epithelial lining fluid of the lower respiratory tract of the lung, as compared to levels prior to commencing therapy with PROLASTIN. However, the clinical benefit of the increased levels at the recommended dose has not been demonstrated in adequately powered, randomized, controlled clinical trials for any Alpha-PI product. PROLASTIN-C LIQUID increases antigenic and functional (anti-neutrophil elastase capacity, ANEC) serum levels.

12.3 Pharmacokinetics

The pharmacokinetic (PK) study was a randomized, double-blind, crossover trial comparing PROLASTIN-C LIQUID to PROLASTIN-C conducted in 32 adult subjects age 44 to 71 years with severe Alpha-PI deficiency. Eighteen subjects were male and 14 subjects were female. Sixteen subjects were randomized to each treatment sequence. All but one subject had the PiZZ genotype and the remaining subject was PiSZ. Twenty-eight subjects had received prior Alpha-PI augmentation therapy and 4 subjects were naïve to Alpha-PI augmentation therapy. Study subjects were randomly assigned to receive either 60 mg/kg body weight of functional PROLASTIN-C LIQUID or PROLASTIN-C weekly by intravenous infusion during the first 8-week treatment period. Following the last dose in the first 8-week treatment period, subjects underwent serial blood sampling for PK analysis and then crossed over to the alternate treatment for the second 8-week treatment period. Following the last treatment in the second 8-week treatment period, subjects underwent serial blood sampling for PK analysis. In addition, blood samples were drawn for trough levels before infusion at Weeks 6, 7, 8, and 9, as well as before infusion at Weeks 14, 15, 16, and 17. A final PK sample was drawn at Week 20 (4 weeks after the last dose) to correct for endogenous Alpha-PI levels.

The pharmacokinetic parameters of Alpha-PI in plasma showed bioequivalence between PROLASTIN-C LIQUID treatment and PROLASTIN-C treatment, as shown in Table 7. Comparability was also demonstrated with respect to Alpha-PI functional activity assay.
Table 7: Pharmacokinetic Parameters of Alpha-1-PI in Plasma

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Antigenic Activity</th>
<th>Functional Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AUC&lt;sub&gt;0-7days&lt;/sub&gt; (mg*hr/mL) Mean (%CV)</td>
<td>C&lt;sub&gt;max&lt;/sub&gt; (mg/mL) Mean (%CV)</td>
</tr>
<tr>
<td>PROLASTIN®-C LIQUID</td>
<td>203.20 (11.3)</td>
<td>2.54 (15.3)</td>
</tr>
<tr>
<td>n=30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROLASTIN®-C</td>
<td>198.38 (12.7)</td>
<td>2.49 (20.0)</td>
</tr>
<tr>
<td>n=28</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The key pharmacokinetic parameter was the area under the plasma concentration-time curve (AUC<sub>0-7days</sub>) following 8 weeks of treatment with PROLASTIN-C LIQUID or PROLASTIN-C. The 90% confidence interval (1.03-1.08) for the ratio of AUC<sub>0-7days</sub> for PROLASTIN-C LIQUID and PROLASTIN-C indicated that the 2 products are bioequivalent, i.e. the entire range falls within the 80 – 125% interval. Figure 1 shows the concentration (functional activity) vs. time curves of Alpha-1-PI after intravenous administration of PROLASTIN-C LIQUID and PROLASTIN-C.

Figure 1: Mean Plasma Alpha-1-PI Concentration (functional activity) vs. Time Curves Following Treatment with PROLASTIN-C LIQUID or PROLASTIN-C

Trough levels measured at steady state during the PK study using an antigenic content assay showed PROLASTIN-C LIQUID resulted in a mean trough of 17.72 µM and PROLASTIN-C resulted in a mean trough of 16.88 µM.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis, mutagenesis, and impairment of fertility studies were not performed; PROLASTIN-C LIQUID is a biologic purified from human plasma.

13.2 Animal Toxicology and/or Pharmacology

Intravenous administration of five daily doses of PROLASTIN-C LIQUID to rabbits at a dose up to 600 mg/kg per day (10-fold higher dose than the recommended human dose of 60 mg/kg administered weekly), did not result in any signs of toxicity. Further, there were no differences in safety and tolerability of PROLASTIN-C and PROLASTIN-C LIQUID in nonclinical testing.
14 CLINICAL STUDIES
The clinical efficacy of PROLASTIN-C LIQUID in influencing the course of pulmonary emphysema or pulmonary exacerbations has not been demonstrated in adequately powered, randomized, controlled clinical trials.

A total of 23 subjects with the PiZZ variant and documented emphysema were studied in a single-arm, open-label clinical trial with PROLASTIN, the predecessor product. Nineteen of the subjects received PROLASTIN, 60 mg/kg, once weekly for up to 26 weeks (average 24 weeks). Blood levels of Alpha-1-PI were maintained above 11 µM. Bronchoalveolar lavage studies demonstrated statistically significant increased levels of Alpha-1-PI and functional ANEC in the epithelial lining fluid of the lower respiratory tract of the lung, as compared to levels prior to dosing.

In addition to the PROLASTIN-C LIQUID/PROLASTIN-C crossover trial described above, in which 31 subjects received PROLASTIN-C, PROLASTIN-C has been studied in 62 individual subjects in 2 separate clinical trials. The first study was a crossover pharmacokinetic study. [see Clinical Pharmacology (12.3)] The second PROLASTIN-C clinical trial was a multi-center, open-label single arm safety study conducted to evaluate the safety and tolerability of PROLASTIN-C. In this study, 38 subjects were treated with weekly intravenous infusions of 60 mg/kg body weight of PROLASTIN-C for 20 weeks. Half the subjects were naïve to previous Alpha-1-PI augmentation prior to study entry and the other half were receiving augmentation with PROLASTIN prior to entering the study. A diagnosis of severe Alpha-1-PI deficiency was confirmed by the demonstration of the PiZZ genotype in 32 of 38 (84.2%) subjects, and 6 of 38 (15.8%) subjects presented with other alleles known to result in severe Alpha-1-PI deficiency. These groups were distributed evenly between the naïve and non-naïve cohorts.

15 REFERENCES

16 HOW SUPPLIED/STORAGE AND HANDLING
• PROLASTIN-C LIQUID is supplied in a single-use vial with the total Alpha-1-PI functional activity, in milligrams, stated on the vial label and carton.
• Components of the packaging do not contain natural rubber latex.

<table>
<thead>
<tr>
<th>NDC Number Carton</th>
<th>Approximate Alpha-1-PI Functional Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>13533-705-01</td>
<td>1,000 mg</td>
</tr>
</tbody>
</table>

• Store refrigerated at 2-8°C (36-46°F) for the period indicated by the expiration date on its label.
• Product may be stored at room temperatures not exceeding 25°C (77°F) for up to one month, after which the product must be used or immediately discarded.
• Do not freeze.
17 PATIENT COUNSELING INFORMATION

- Inform patients of the signs of hypersensitivity reactions including pruritus; generalized urticaria; flushing; swollen lips, tongue, or uvula; wheezing; tightness of the chest; dyspnea; hypotension; and syncope. Advise patients to discontinue use of the product and contact their physician and/or seek immediate emergency care, depending on the severity of the reaction, if these symptoms occur. [see Warnings and Precautions (5.1)]

- Inform patients that PROLASTIN-C LIQUID is made from human plasma and may carry a risk of transmitting infectious agents that can cause disease (e.g., viruses, the vCJD agent and, theoretically, the CJD agent). Explain that the risk of PROLASTIN-C LIQUID transmitting an infectious agent has been reduced by screening plasma donors for prior exposure to certain infectious agents, by testing the donated plasma for certain current virus infections, and by inactivating and/or removing infectious agents during manufacturing. [see Warnings and Precautions (5.2)]

- Inform patients that administration of PROLASTIN-C LIQUID has been demonstrated to raise the plasma level of Alpha₁-PI, but that the effect of this augmentation on pulmonary exacerbations and on the rate of progression of emphysema has not been demonstrated in adequately powered, randomized, controlled clinical trials for any Alpha₁-PI product. [see Clinical Studies (14)]