

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use PROLASTIN®-C (Alpha₁-Proteinase Inhibitor [Human]) safely and effectively. See full prescribing information for PROLASTIN-C.

PROLASTIN®-C (Alpha₁-Proteinase Inhibitor [Human]) Lyophilized Preparation
For Intravenous Use Only
Initial U.S. Approval: 1987



08939812

RECENT MAJOR CHANGES

Dosage and Administration, Administration, Reconstitution (2.2) 10/2009

INDICATIONS AND USAGE

PROLASTIN-C is an alpha₁-proteinase inhibitor that is indicated for chronic augmentation and maintenance therapy in adults with emphysema due to deficiency of alpha₁-proteinase inhibitor (alpha₁-antitrypsin deficiency). (1) The effect of augmentation therapy with any alpha₁-proteinase inhibitor (Alpha₁-PI) on pulmonary exacerbations and on the progression of emphysema in alpha₁-antitrypsin deficiency has not been demonstrated in randomized, controlled clinical trials. PROLASTIN-C is not indicated as therapy for lung disease in patients in whom severe Alpha₁-PI deficiency has not been established.

DOSAGE AND ADMINISTRATION

The recommended dose of PROLASTIN-C is 60 mg/kg body weight administered once weekly. Dose ranging studies using efficacy endpoints have not been performed with any alpha₁-proteinase inhibitor product. Administer PROLASTIN-C intravenously at a rate of approximately 0.08 mL/kg/min as determined by the response and comfort of the patient. (2)

DOSAGE FORMS AND STRENGTHS

PROLASTIN-C is supplied in 1000 mg single use vials with a separate 20 mL Sterile Water for Injection, USP. (3)

CONTRAINDICATIONS

IgA deficient patients with antibodies against IgA. (4)

WARNINGS AND PRECAUTIONS

- IgA deficient patients with antibodies against IgA are at greater risk of developing severe hypersensitivity and anaphylactic reactions. (5.1)
- This product is made from human plasma and may contain infectious agents, e.g., viruses and, theoretically, the Creutzfeldt-Jakob disease agent. (5.2)

ADVERSE REACTIONS

The most common drug related adverse reactions during clinical trials in ≥ 1% of subjects were chills, malaise, headache, rash, hot flush, and pruritus. (6.1)

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

USE IN SPECIFIC POPULATIONS

- Pregnancy: No human or animal data. Use only if clearly needed. (8.1)

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See Section 17 for PATIENT COUNSELING INFORMATION.

Revised: October 2009

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Talecris Biotherapeutics, Inc.

FULL PRESCRIBING INFORMATION

Alpha₁-Proteinase Inhibitor (Human)

PROLASTIN®-C

Lyophilized Preparation

1 INDICATIONS AND USAGE

PROLASTIN-C is a preparation of alpha₁-proteinase inhibitor that is indicated for chronic augmentation and maintenance therapy in adults with emphysema due to deficiency of alpha₁-proteinase inhibitor (Alpha₁-PI, alpha₁-antitrypsin deficiency). The effect of augmentation therapy with any Alpha₁-PI product on pulmonary exacerbations and on the progression of emphysema in alpha₁-antitrypsin deficiency has not been demonstrated in adequately powered, randomized, controlled, clinical trials. PROLASTIN-C is not indicated as therapy for lung disease in patients in whom severe Alpha₁-PI deficiency has not been established.

2 DOSAGE AND ADMINISTRATION

For intravenous use only.

The recommended dose of PROLASTIN-C is 60 mg/kg body weight administered once weekly. Dose ranging studies using efficacy endpoints have not been performed with any alpha₁-proteinase inhibitor product. Each vial of PROLASTIN-C contains the labeled amount of functionally active Alpha₁-PI in milligrams (as determined by the capacity to neutralize porcine pancreatic elastase) as stated on the label.

PROLASTIN-C should be given intravenously at a rate of approximately 0.08 mL/kg/min as determined by the response and comfort of the patient. The recommended dosage of 60 mg/kg takes approximately 15 minutes to infuse.

2.1 Preparation and Handling

- Do not freeze. Breakage of the diluent bottle may occur.
- PROLASTIN-C and diluent should be at room temperature before reconstitution.
- Inspect reconstituted PROLASTIN-C visually for particulate matter and discoloration prior to pooling and use.
- PROLASTIN-C should be kept at room temperature after reconstitution and should be administered within 3 hours.
- PROLASTIN-C should be given alone, without mixing with other agents or diluting solutions.
- Reconstituted product from several vials may be pooled into an empty, sterile IV solution container by using aseptic technique.
- Do not use after expiration date.

2.2 Administration

Each product package contains one PROLASTIN-C single use vial, one 20 mL vial of Sterile Water for Injection (diluent), one color-coded sterile transfer needle, and one sterile filter needle. Administer within three hours after reconstitution.

Reconstitution

Use aseptic technique.

- PROLASTIN-C and diluent should be at room temperature before reconstitution.
- Remove the plastic flip tops from each vial.
- Swab the exposed stopper surfaces with alcohol and allow surface to dry.
- Remove the plastic cover from the short end of the transfer needle. Insert the exposed end of the needle through the center of the stopper in the DILUENT vial.
- Remove the cover at the other end of the transfer needle by twisting it carefully.
- Invert the DILUENT vial and insert the attached needle into the PRODUCT vial at a 45° angle (Figure A below). This will direct the stream of diluent against the wall of the product vial and minimize foaming. The vacuum will draw the diluent into the PRODUCT vial.
- Remove the DILUENT bottle and transfer needle.
- Immediately after adding the diluent, swirl vigorously for 10–15 seconds to thoroughly break-up cake then swirl continuously until the powder is completely dissolved (Figure B below). Some foaming will occur, but does not affect the quality of the product.
- Inspect the vial visually for particulate matter and discoloration prior to pooling and administration. A few small particles may occasionally remain after reconstitution. If particles are visible, remove by passage through a sterile filter (e.g., 15 micron filter) used for administering blood products (not supplied).
- Reconstituted product from several vials may be pooled into an empty, sterile IV solution container by using aseptic technique. A sterile filter needle is provided for this purpose.

Described here is one acceptable method of reconstitution. The product could also be reconstituted with other appropriate devices according to the manufacturer's accepted procedure.

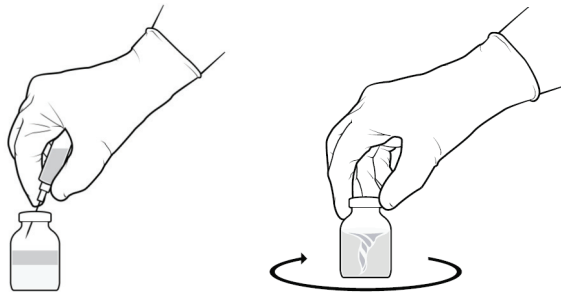


FIGURE A

FIGURE B

Shelf Life

PROLASTIN-C should be stored at temperatures not to exceed 25°C (77°F) for the period indicated by the expiration date on its label.

Special Precautions for Storage

Freezing should be avoided as breakage of the diluent bottle might occur.

3 DOSAGE FORMS AND STRENGTHS

PROLASTIN-C is supplied in 1000 mg single use vials with a separate 20 mL vial of Sterile Water for Injection, USP.

4 CONTRAINDICATIONS

PROLASTIN-C is contraindicated in IgA deficient patients with antibodies against IgA, due to the risk of severe hypersensitivity.

5 WARNINGS AND PRECAUTIONS

5.1 Sensitivity

Hypersensitivity reactions may occur. Should evidence of an acute hypersensitivity reaction be observed, the infusion should be stopped promptly and appropriate countermeasures and supportive therapy should be administered. (See Patient Counseling Information [17])

PROLASTIN-C 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. PROLASTIN-C is contraindicated in patients with antibodies against IgA.

5.2 Viral Clearance

Products made from human plasma may carry a risk of transmitting infectious agents, e.g., viruses, and, theoretically, the Creutzfeldt-Jakob disease (CJD) agent. In each of 2 randomized, double-blind studies in which the predecessor product, PROLASTIN® (Alpha₁-Proteinase Inhibitor [Human]), was compared to other Alpha₁-PI products, there was a single case of parvovirus B19 seroconversion in the PROLASTIN arms of each trial. In each case, it could not be determined whether parvovirus B19 had been acquired from PROLASTIN or from the community. However, during clinical studies with PROLASTIN-C, there were no reported treatment emergent cases of hepatitis B, hepatitis C, HIV or parvovirus B19 viral infections. Furthermore, the PROLASTIN-C process incorporates additional plasma safety and virus reduction measures that minimize the residual risk of virus transmission. (See Description [11])

The physician should discuss the risks and benefits of this product with the patient, before prescribing or administering it to a patient. (See Patient Counseling Information [17]) All infections thought by a physician possibly to have been transmitted by this product should be reported by the physician or other healthcare provider to Talecris Biotherapeutics, Inc. [1-800-520-2807].

6 ADVERSE REACTIONS

The most serious adverse reaction observed during clinical studies 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.

The most common drug-related adverse reactions observed at a rate of ≥ 1% in subjects receiving PROLASTIN-C were chills, malaise, headache, rash, hot flush and pruritus.

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.

Two separate clinical studies were conducted with PROLASTIN-C: (1) A 20 week, open-label, single arm safety study in 38 subjects, and (2) A 16 week, randomized, double-blind, crossover pharmacokinetic comparability study vs. PROLASTIN in 24 subjects, followed by an 8 week open-label treatment with PROLASTIN-C. Thus, 62 subjects were exposed to PROLASTIN-C in clinical trials.

Adverse reactions considered drug related by the investigators occurring in 1.6% of subjects (one subject each) treated with PROLASTIN-C were malaise, headache, rash, hot flush, and pruritus. Drug related chills occurred in 3.2% (2 subjects) of PROLASTIN-C subjects.

Adverse events occurring irrespective of causality in ≥ 5% of subjects in the first 8 weeks of treatment are shown in Table 1. Adverse events which occurred in the first 8 weeks of treatment are shown in the table in order to control for the differing treatment durations of the safety and PK studies (20 weeks vs. two 8 week periods).

Table 1: Adverse Events Occurring in ≥ 5% of Subjects in the First 8 Weeks of Treatment Irrespective of Causality

Adverse Event	PROLASTIN®-C	PROLASTIN®
	No. of subjects: 62	No. of subjects: 24
Nausea	4 (6.5%)	0
Urinary Tract Infection	4 (6.5%)	0
Headache	3 (4.8%)	2 (8.3%)
Arthralgia	2 (3.2%)	2 (8.3%)

Source: studies 11815 and 11816

Table 2 below displays the overall adverse rate (> 0.5%), irrespective of causality, as a percentage of infusions received.

Table 2: Adverse Event Frequency as a % of all Infusions (> 0.5%) Irrespective of Causality

Adverse Event	PROLASTIN®-C	PROLASTIN®
	No. of infusions: 1132	No. of infusions: 192
Upper respiratory tract infection	9 (0.8%)	1 (0.5%)
Urinary tract infection	8 (0.7%)	0
Nausea	7 (0.6%)	0
Headache	4 (0.4%)	3 (1.6%)
Arthralgia	2 (0.2%)	2 (1.0%)

Source: studies 11815 and 11816

Table 3 below displays the overall rates of adverse events (≥ 5%), in the first eight weeks of treatment, that began during or within 72 hours of the end of an infusion of PROLASTIN-C or PROLASTIN.

Table 3: Adverse Events Occurring in ≥ 5% of Subjects during or within 72 hours of the end of an infusion, in the First 8 Weeks of Treatment Irrespective of Causality

Adverse Event	PROLASTIN®-C	PROLASTIN®
	No. of subjects: 62	No. of subjects: 24
Urinary Tract Infection	4 (6.5%)	0
Headache	3 (4.8%)	2 (8.3%)

Source: studies 11815 and 11816

Ten exacerbations of chronic obstructive pulmonary disease were reported by 8 subjects in the 24 week pharmacokinetic crossover 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.

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.

The following adverse reactions have been identified and reported during the post marketing use of the predecessor product, PROLASTIN:

- Respiratory: dyspnea
- Cardiac: tachycardia
- Skin and Subcutaneous: rash
- General/Body as a Whole: chest pain, chills, influenza-like illness
- Immune: hypersensitivity
- Vascular: hypotension, hypertension (including transient increases of blood pressure)

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moderately increased risk for developing emphysema, regardless of whether their serum Alpha₁-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 AAT 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 Alpha₁-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 Alpha₁-PI (antigenically measured) above 11 μM has been historically postulated to provide therapeutically relevant anti-neutrophil elastase protection (10), this has not been proven. Individuals with severe Alpha₁-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 Alpha₁-PI above 11 μM have emphysema attributed to Alpha₁-PI deficiency. These observations underscore the uncertainty regarding the appropriate therapeutic target serum level of Alpha₁-PI during augmentation therapy.

12.1 Mechanism of Action

The pathogenesis of emphysema is understood to evolve as described in the "protease-antiprotease imbalance" model (11). Alpha₁-PI is understood to be the primary antiprotease in the lower respiratory tract, where it inhibits neutrophil elastase (NE) (12). Normal healthy individuals produce sufficient Alpha₁-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 Alpha₁-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 Alpha₁-PI are subject to more rapid proteolysis of the alveolar walls leading to chronic lung disease. PROLASTIN[®]-C (Alpha₁-Proteinase Inhibitor [Human]) serves as Alpha₁-PI augmentation therapy in the patient population with severe Alpha₁-PI deficiency and emphysema, acting to increase and maintain serum and lung epithelial lining fluid levels of Alpha₁-PI.

12.2 Pharmacodynamics

Chronic augmentation therapy with the predecessor product, PROLASTIN[®] (Alpha₁-Proteinase Inhibitor [Human]), administered weekly at a dose of 60 mg/kg body weight, results in significantly increased levels of Alpha₁-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 (11-13). 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 Alpha₁-PI product.

12.3 Pharmacokinetics

The pharmacokinetic (PK) study was a randomized, double-blind, crossover trial comparing PROLASTIN-C to PROLASTIN conducted in 24 adult subjects age 40 to 72 with severe AAT deficiency. Ten subjects were male and 14 subjects were female. Twelve subjects were randomized to each treatment sequence. All but one subject had the PiZZ genotype and the remaining subject had PiSZ. All subjects had received prior Alpha₁-PI therapy with PROLASTIN for at least 1 month.

Study subjects were randomly assigned to receive either 60 mg/kg body weight of functional PROLASTIN-C or PROLASTIN weekly by IV 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, and 8, as well as before infusion at Weeks 14, 15, and 16.

In the 8-week open-label treatment phase that followed the crossover period, all subjects received 60 mg/kg body weight of functional PROLASTIN-C.

The pharmacokinetic parameters of Alpha₁-PI in plasma, based on functional activity assays, showed comparability between PROLASTIN-C treatment and PROLASTIN treatment, as shown in Table 5.

Table 5: Pharmacokinetic parameters of Alpha₁-PI in plasma

Treatment	AUC _{0-7days} (hr*mg/mL) Mean (%CV)	C _{max} (mg/mL) Mean (%CV)	t _{1/2} (hr) Mean (%CV)
PROLASTIN [®] -C (n=22 or 23)	155.9 (17%)	1.797 (10%)	146.3 (16%)
PROLASTIN [®] (n=22 or 23)	152.4 (16%)	1.848 (15%)	139.3 (18%)

The key pharmacokinetic parameter was the area under the plasma concentration-time curve (AUC_{0-7days}) following 8 weeks of treatment with PROLASTIN-C or PROLASTIN. The 90% confidence interval (0.97-1.09) for the ratio of AUC_{0-7days} for PROLASTIN-C and PROLASTIN indicated that the 2 products are pharmacokinetically equivalent. Figure 1 shows the concentration (functional activity) vs. time curves of Alpha₁-PI after intravenous administration of PROLASTIN-C and PROLASTIN.

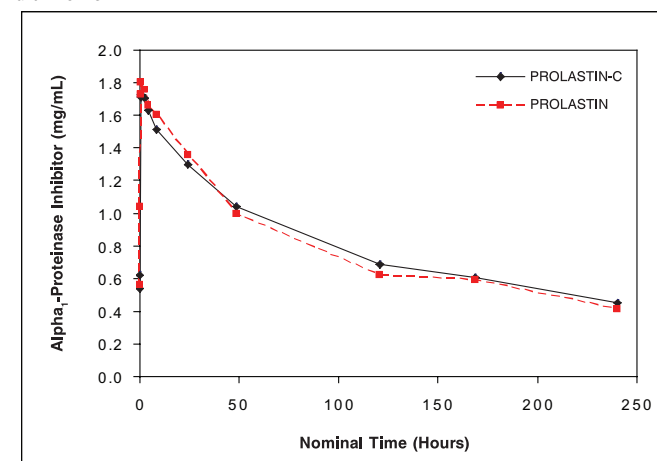


Figure 1: Mean Plasma Alpha₁-PI Concentration (functional activity) vs. Time Curves Following Treatment with PROLASTIN-C or PROLASTIN

Trough levels measured during the PK study via an antigenic content assay showed PROLASTIN-C treatment resulted in a mean trough of 16.9 ± 2.3 μM and PROLASTIN resulted in a mean trough of 16.7 ± 2.7 μM. Using the functional activity assay, PROLASTIN-C resulted in a mean trough of 11.8 ± 2.2 μM and PROLASTIN resulted in a mean trough of 11.0 ± 2.2 μM.

14 CLINICAL STUDIES

A total of 62 unique subjects were studied in 2 clinical studies. In addition to the pharmacokinetic study described in [12.3], a multi-center, open-label single arm safety study was conducted to evaluate the safety and tolerability of PROLASTIN-C. In this study, 38 subjects were treated with

weekly IV infusions of 60 mg/kg body weight of PROLASTIN-C for 20 weeks. Half the subjects were naïve to previous Alpha₁-PI augmentation prior to study entry and the other half were receiving augmentation with PROLASTIN prior to entering the study. A diagnosis of severe AAT 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 AAT deficiency. These groups were distributed evenly between the naïve and non-naïve cohorts. Results from the study are discussed in [6.2]. The clinical efficacy of PROLASTIN-C or any Alpha₁-PI product in influencing the course of pulmonary emphysema or pulmonary exacerbations has not been demonstrated in adequately powered, randomized, controlled clinical trials.

15 REFERENCES

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16 HOW SUPPLIED/STORAGE AND HANDLING

PROLASTIN-C is supplied in single-use vials with the total Alpha₁-PI functional activity, in milligrams, stated on the label of each vial. Each product package contains a single vial of PROLASTIN-C, one 20 mL vial of Sterile Water for Injection, USP, a transfer needle, and a filter needle. PROLASTIN-C is supplied in the following size:

NDC Number	Approximate Alpha ₁ -PI Functional Activity	Diluent
13533-700-01	1000 mg	20 mL

PROLASTIN-C should be stored at temperatures not to exceed 25°C (77°F) for the period indicated by the expiration date on its label. Freezing should be avoided as breakage of the diluent bottle might occur.

17 PATIENT COUNSELING INFORMATION

Inform patients of the signs of hypersensitivity reactions including hives, generalized urticaria, tightness of the chest, dyspnea, wheezing, faintness, hypotension, and anaphylaxis. Patients should be advised 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.

Inform patients that PROLASTIN-C is made from human plasma and may contain infectious agents that can cause disease (e.g., viruses and, theoretically, the CJD agent). Inform patients of the risk that PROLASTIN-C may transmit an infectious agent, but that this risk has been reduced by screening plasma donors for prior exposure to certain viruses, by testing the donated plasma for certain virus infections and by inactivating and/or removing certain viruses during manufacturing. (See *Warnings and Precautions* [5.2]) Inform patients that administration of PROLASTIN-C 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.

Manufactured by:

Talecris Biotherapeutics, Inc.
Research Triangle Park, NC 27709 USA
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