NEULASTA- pegfilgrastim
NEULASTA- pegfilgrastim injection
Amgen Inc

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use NEULASTA safely and effectively. See full prescribing information for NEULASTA.

NEULASTA® (pegfilgrastim) injection, for subcutaneous use
Initial U.S. Approval: 2002

RECENT MAJOR CHANGES

Warnings and Precautions, Potential Device Failures (5.10) 12/2017
Warnings and Precautions, Aortitis (5.11) 06/2018
Warnings and Precautions, Nuclear Imaging (5.12) 06/2018

INDICATIONS AND USAGE

Neulasta is a leukocyte growth factor indicated to
• Decrease the incidence of infection, as manifested by febrile neutropenia, in patients with non-myeloid malignancies receiving myelosuppressive anti-cancer drugs associated with a clinically significant incidence of febrile neutropenia. (1.1)
• Increase survival in patients acutely exposed to myelosuppressive doses of radiation (Hematopoietic Subsyndrome of Acute Radiation Syndrome). (1.2)

Limitations of Use
Neulasta is not indicated for the mobilization of peripheral blood progenitor cells for hematopoietic stem cell transplantation.

DOSAGE AND ADMINISTRATION

• Patients with cancer receiving myelosuppressive chemotherapy
  ○ 6 mg administered subcutaneously once per chemotherapy cycle. (2.1)
  ○ Do not administer between 14 days before and 24 hours after administration of cytotoxic chemotherapy. (2.1)
  ○ Use weight based dosing for pediatric patients weighing less than 45 kg; refer to Table 1. (2.3)
• Patients acutely exposed to myelosuppressive doses of radiation
  ○ Two doses, 6 mg each, administered subcutaneously one week apart. Administer the first dose as soon as possible after suspected or confirmed exposure to myelosuppressive doses of radiation, and a second dose one week after. (2.2)
  ○ Use weight based dosing for pediatric patients weighing less than 45 kg; refer to Table 1. (2.3)

DOSAGE FORMS AND STRENGTHS
• Injection: 6 mg/0.6 mL solution in a single-dose prefilled syringe for manual use only. (3)
• Injection: 6 mg/0.6 mL solution in a single-dose prefilled syringe co-packaged with the on-body injector for Neulasta. (3)

CONTRAINDICATIONS
Patients with a history of serious allergic reactions to human granulocyte colony-stimulating factors such as pegfilgrastim or filgrastim. (4)

WARNINGS AND PRECAUTIONS
• Fatal splenic rupture: Evaluate patients who report left upper abdominal or shoulder pain for an enlarged spleen or splenic rupture. (5.1)
• Acute respiratory distress syndrome (ARDS): Evaluate patients who develop fever, lung infiltrates, or respiratory distress. Discontinue Neulasta in patients with ARDS. (5.2)
• Serious allergic reactions, including anaphylaxis: Permanently discontinue Neulasta in patients with serious allergic reactions. (5.3)
• The on-body injector for Neulasta uses acrylic adhesive. For patients who have reactions to acrylic adhesives, use of this product may result in a significant reaction. (5.4)
• Fatal sickle cell crises: Have occurred. (5.5)
• Glomerulonephritis: Evaluate and consider dose-reduction or interruption of Neulasta if causality is likely. (5.6)
• Potential device failures: Instruct patients to notify their healthcare provider if they suspect the on-body injector may
ADVERSE REACTIONS

Most common adverse reactions (≥ 5% difference in incidence compared to placebo) are bone pain and pain in extremity.

To report SUSPECTED ADVERSE REACTIONS, contact Amgen Inc. at 1-800-77-AMGEN (1-800-772-6436) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION, FDA-approved patient labeling and FDA-approved patient labeling.

Revised: 6/2018

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Patients with Cancer Receiving Myelosuppressive Chemotherapy

Neulasta is indicated to decrease the incidence of infection, as manifested by febrile neutropenia, in patients with non-myeloid malignancies receiving myelosuppressive anti-cancer drugs associated with a clinically significant incidence of febrile neutropenia [see Clinical Studies (14.1)].

Limitations of Use

Neulasta is not indicated for the mobilization of peripheral blood progenitor cells for hematopoietic stem cell transplantation.

1.2 Patients with Hematopoietic Subsyndrome of Acute Radiation Syndrome

Neulasta is indicated to increase survival in patients acutely exposed to myelosuppressive doses of radiation [see Dosage and Administration (2.2) and Clinical Studies (14.2)].

2 DOSAGE AND ADMINISTRATION

2.1 Patients with Cancer Receiving Myelosuppressive Chemotherapy

The recommended dosage of Neulasta is a single subcutaneous injection of 6 mg administered once per chemotherapy cycle. For dosing in pediatric patients weighing less than 45 kg, refer to Table 1. Do not administer Neulasta between 14 days before and 24 hours after administration of cytotoxic chemotherapy.

2.2 Patients with Hematopoietic Subsyndrome of Acute Radiation Syndrome

The recommended dose of Neulasta is two doses, 6 mg each, administered subcutaneously one week apart. For dosing in pediatric patients weighing less than 45 kg, refer to Table 1. Administer the first dose as soon as possible after suspected or confirmed exposure to radiation levels greater than 2 gray (Gy). Administer the second dose one week after the first dose.

Obtain a baseline complete blood count (CBC). Do not delay administration of Neulasta if a CBC is not readily available. Estimate a patient’s absorbed radiation dose (i.e., level of radiation exposure) based on information from public health authorities, biodosimetry if available, or clinical findings such as time to onset of vomiting or lymphocyte depletion kinetics.

2.3 Administration
Neulasta is administered subcutaneously via a single-dose prefilled syringe for manual use or for use with the on-body injector (OBI) for Neulasta, which is co-packaged with a single-dose prefilled syringe. Use of the OBI for Neulasta is not recommended for patients with Hematopoietic Subsyndrome of Acute Radiation Syndrome. Use of the OBI for Neulasta has not been studied in pediatric patients.

Prior to use, remove the carton from the refrigerator and allow the Neulasta prefilled syringe to reach room temperature for a minimum of 30 minutes. Discard any prefilled syringe left at room temperature for greater than 48 hours.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Do not administer Neulasta if discoloration or particulates are observed.

The needle cap on the prefilled syringes contains dry natural rubber (derived from latex); persons with latex allergies should not administer these products.

**Pediatric Patients weighing less than 45 kg**

The Neulasta prefilled syringe is not designed to allow for direct administration of doses less than 0.6 mL (6 mg). The syringe does not bear graduation marks, which are necessary to accurately measure doses of Neulasta less than 0.6 mL (6 mg) for direct administration to patients. Thus, the direct administration to patients requiring dosing of less than 0.6 mL (6 mg) is not recommended due to the potential for dosing errors. Refer to Table 1.

<table>
<thead>
<tr>
<th>Body Weight</th>
<th>Neulasta Dose</th>
<th>Volume to Administer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 10 kg*</td>
<td>See below*</td>
<td>See below*</td>
</tr>
<tr>
<td>10 - 20 kg</td>
<td>1.5 mg</td>
<td>0.15 mL</td>
</tr>
<tr>
<td>21 - 30 kg</td>
<td>2.5 mg</td>
<td>0.25 mL</td>
</tr>
<tr>
<td>31 - 44 kg</td>
<td>4 mg</td>
<td>0.4 mL</td>
</tr>
</tbody>
</table>

*For pediatric patients weighing less than 10 kg, administer 0.1 mg/kg (0.01 mL/kg) of Neulasta.

**2.4 Special Healthcare Provider Instructions for the On-body Injector for Neulasta**

A healthcare provider must fill the on-body injector (OBI) with Neulasta using the prefilled syringe and then apply the OBI for Neulasta to the patient’s skin (abdomen or back of arm). The back of the arm may only be used if there is a caregiver available to monitor the status of the OBI for Neulasta.

Approximately 27 hours after the OBI for Neulasta is applied to the patient’s skin, Neulasta will be delivered over approximately 45 minutes. A healthcare provider may initiate administration with the OBI for Neulasta on the same day as the administration of cytotoxic chemotherapy, as long as the OBI for Neulasta delivers Neulasta no less than 24 hours after administration of cytotoxic chemotherapy.

The prefilled syringe co-packaged in Neulasta Onpro® kit must only be used with the OBI for Neulasta. The prefilled syringe contains additional solution to compensate for liquid loss during delivery through the OBI for Neulasta. If the prefilled syringe co-packaged in Neulasta Onpro kit is used for manual subcutaneous injection, the patient will receive an overdose. If the single-dose prefilled syringe for manual use is used with the OBI for Neulasta, the patient may receive less than the recommended dose.

Do not use the OBI for Neulasta to deliver any other drug product except the Neulasta prefilled syringe co-packaged with the OBI for Neulasta.

The OBI for Neulasta should be applied to intact, non-irritated skin on the arm or abdomen.

A missed dose could occur due to an OBI for Neulasta failure or leakage. If the patient misses a dose, a
new dose should be administered by single-dose prefilled syringe for manual use, as soon as possible after detection.

Refer to the Healthcare Provider Instructions for Use for the OBI for Neulasta for full administration information.

2.5 Advice to Give to Patients Regarding Administration via the On-body Injector for Neulasta

Advise patients to avoid activities such as traveling, driving, or operating heavy machinery during hours 26-29 following application of the on-body injector (OBI) for Neulasta (this includes the 45-minute delivery period plus an hour post-delivery). Patients should have a caregiver nearby for the first use.

Refer the patient to the dose delivery information written on the Patient Instructions for Use. Provide training to patients to ensure they understand when the dose delivery of Neulasta will begin and how to monitor the OBI for Neulasta for completed delivery. Ensure patients understand how to identify signs of malfunction of OBI for Neulasta [see Warnings and Precautions (5.10) and Patient Counseling Information (17)]. Instruct patients using the OBI to notify their healthcare professional immediately in order to determine the need for a replacement dose of Neulasta if they suspect that the device may not have performed as intended [see Warnings and Precautions (5.10)].

3 DOSAGE FORMS AND STRENGTHS

Neulasta is a clear, colorless, preservative-free solution available as:

- Injection: 6 mg/0.6 mL in a single-dose prefilled syringe for manual use only.
- Injection: 6 mg/0.6 mL in a single-dose prefilled syringe co-packaged with the on-body injector (OBI) for Neulasta (Neulasta Onpro kit).

4 CONTRAINdications

Neulasta is contraindicated in patients with a history of serious allergic reactions to pegfilgrastim or filgrastim. Reactions have included anaphylaxis [see Warnings and Precautions (5.3)].

5 WARNINGS AND PRECAUTIONS

5.1 Splenic Rupture

Splenic rupture, including fatal cases, can occur following the administration of Neulasta. Evaluate for an enlarged spleen or splenic rupture in patients who report left upper abdominal or shoulder pain after receiving Neulasta.

5.2 Acute Respiratory Distress Syndrome

Acute respiratory distress syndrome (ARDS) can occur in patients receiving Neulasta. Evaluate patients who develop fever and lung infiltrates or respiratory distress after receiving Neulasta, for ARDS. Discontinue Neulasta in patients with ARDS.

5.3 Serious Allergic Reactions

Serious allergic reactions, including anaphylaxis, can occur in patients receiving Neulasta. The majority of reported events occurred upon initial exposure. Allergic reactions, including anaphylaxis, can recur within days after the discontinuation of initial anti-allergic treatment. Permanently discontinue Neulasta in patients with serious allergic reactions. Do not administer Neulasta to patients with a history of serious allergic reactions to pegfilgrastim or filgrastim.

5.4 Allergies to Acrylics

The on-body injector (OBI) for Neulasta uses acrylic adhesive. For patients who have reactions to
acrylic adhesives, use of this product may result in a significant reaction.

5.5 **Use in Patients with Sickle Cell Disorders**

Severe and sometimes fatal sickle cell crises can occur in patients with sickle cell disorders receiving pegfilgrastim products. Discontinue Neulasta if sickle cell crisis occurs.

5.6 **Glomerulonephritis**

Glomerulonephritis has occurred in patients receiving Neulasta. The diagnoses were based upon azotemia, hematuria (microscopic and macroscopic), proteinuria, and renal biopsy. Generally, events of glomerulonephritis resolved after dose-reduction or discontinuation of Neulasta. If glomerulonephritis is suspected, evaluate for cause. If causality is likely, consider dose-reduction or interruption of Neulasta.

5.7 **Leukocytosis**

White blood cell (WBC) counts of 100 x 10^9/L or greater have been observed in patients receiving pegfilgrastim. Monitoring of complete blood count (CBC) during pegfilgrastim therapy is recommended.

5.8 **Capillary Leak Syndrome**

Capillary leak syndrome has been reported after G-CSF administration, including Neulasta, and is characterized by hypotension, hypoalbuminemia, edema and hemoconcentration. Episodes vary in frequency, severity and may be life-threatening if treatment is delayed. Patients who develop symptoms of capillary leak syndrome should be closely monitored and receive standard symptomatic treatment, which may include a need for intensive care.

5.9 **Potential for Tumor Growth Stimulatory Effects on Malignant Cells**

The granulocyte colony-stimulating factor (G-CSF) receptor through which pegfilgrastim and filgrastim act has been found on tumor cell lines. The possibility that pegfilgrastim acts as a growth factor for any tumor type, including myeloid malignancies and myelodysplasia, diseases for which pegfilgrastim is not approved, cannot be excluded.

5.10 **Potential Device Failures**

Missed or partial doses have been reported in patients receiving Neulasta via the on-body injector (OBI) due to the device not performing as intended. In the event of a missed or partial dose, patients may be at increased risk of events such as neutropenia, febrile neutropenia and/or infection than if the dose had been correctly delivered. Instruct patients using the OBI to notify their healthcare professional immediately in order to determine the need for a replacement dose of Neulasta if they suspect that the device may not have performed as intended.

5.11 **Aortitis**

Aortitis has been reported in patients receiving Neulasta. It may occur as early as the first week after start of therapy. Manifestations may include generalized signs and symptoms such as fever, abdominal pain, malaise, back pain, and increased inflammatory markers (e.g., c-reactive protein and white blood cell count). Consider aortitis in patients who develop these signs and symptoms without known etiology. Discontinue Neulasta if aortitis is suspected.

5.12 **Nuclear Imaging**

Increased hematopoietic activity of the bone marrow in response to growth factor therapy has been associated with transient positive bone imaging changes. This should be considered when interpreting bone imaging results.
6 ADVERSE REACTIONS

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

- Splenic Rupture [see Warnings and Precautions (5.1)]
- Acute Respiratory Distress Syndrome [see Warnings and Precautions (5.2)]
- Serious Allergic Reactions [see Warnings and Precautions (5.3)]
- Allergies to Acrylics [see Warnings and Precautions (5.4)]
- Use in Patients with Sickle Cell Disorders [see Warnings and Precautions (5.5)]
- Glomerulonephritis [see Warnings and Precautions (5.6)]
- Leukocytosis [see Warnings and Precautions (5.7)]
- Capillary Leak Syndrome [see Warnings and Precautions (5.8)]
- Potential for Tumor Growth Stimulatory Effects on Malignant Cells [see Warnings and Precautions (5.9)]
- Aortitis [see Warnings and Precautions (5.11)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared with rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

Neulasta clinical trials safety data are based upon 932 patients receiving Neulasta in seven randomized clinical trials. The population was 21 to 88 years of age and 92% female. The ethnicity was 75% Caucasian, 18% Hispanic, 5% Black, and 1% Asian. Patients with breast (n = 823), lung and thoracic tumors (n = 53) and lymphoma (n = 56) received Neulasta after nonmyeloablative cytotoxic chemotherapy. Most patients received a single 100 mcg/kg (n = 259) or a single 6 mg (n = 546) dose per chemotherapy cycle over 4 cycles.

The following adverse reaction data in Table 2 are from a randomized, double-blind, placebo-controlled study in patients with metastatic or non-metastatic breast cancer receiving docetaxel 100 mg/m² every 21 days (Study 3). A total of 928 patients were randomized to receive either 6 mg Neulasta (n = 467) or placebo (n = 461). The patients were 21 to 88 years of age and 99% female. The ethnicity was 66% Caucasian, 31% Hispanic, 2% Black, and < 1% Asian, Native American, or other.

The most common adverse reactions occurring in ≥ 5% of patients and with a between-group difference of ≥ 5% higher in the pegfilgrastim arm in placebo-controlled clinical trials are bone pain and pain in extremity.

<table>
<thead>
<tr>
<th>Table 2. Adverse Reactions with ≥ 5% Higher Incidence in Neulasta Patients Compared to Placebo in Study 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Body System</strong></td>
</tr>
<tr>
<td>Adverse Reaction</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
</tr>
<tr>
<td>Bone pain</td>
</tr>
<tr>
<td>Pain in extremity</td>
</tr>
</tbody>
</table>

Leukocytosis

In clinical studies, leukocytosis (WBC counts > 100 x 10⁹/L) was observed in less than 1% of 932 patients with non-myeloid malignancies receiving Neulasta. No complications attributable to leukocytosis were reported in clinical studies.

6.2 Immunogenicity
As with all therapeutic proteins, there is a potential for 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 pegfilgrastim in the studies described below with the incidence of antibodies in other studies or to other products may be misleading.

Binding antibodies to pegfilgrastim were detected using a BIAcore assay. The approximate limit of detection for this assay is 500 ng/mL. Pre-existing binding antibodies were detected in approximately 6% (51/849) of patients with metastatic breast cancer. Four of 521 pegfilgrastim-treated subjects who were negative at baseline developed binding antibodies to pegfilgrastim following treatment. None of these 4 patients had evidence of neutralizing antibodies detected using a cell-based bioassay.

6.3 Postmarketing Experience

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

- Splenic rupture and splenomegaly (enlarged spleen) [see Warnings and Precautions (5.1)]
- Acute respiratory distress syndrome (ARDS) [see Warnings and Precautions (5.2)]
- Allergic reactions/hypersensitivity, including anaphylaxis, skin rash, urticaria, generalized erythema, and flushing [see Warnings and Precautions (5.3)]
- Sickle cell crisis [see Warnings and Precautions (5.5)]
- Glomerulonephritis [see Warnings and Precautions (5.6)]
- Leukocytosis [see Warnings and Precautions (5.7)]
- Capillary Leak Syndrome [see Warnings and Precautions (5.8)]
- Injection site reactions
- Sweet’s syndrome (acute febrile neutrophilic dermatosis), cutaneous vasculitis
- Application site reactions (including events such as application site hemorrhage, application site pain, application site discomfort, application site bruise, and application site erythema) have been reported with the use of the on-body injector for Neulasta.
- Contact dermatitis and local skin reactions such as rash, pruritus, and urticaria have been reported with the use of the on-body injector for Neulasta, possibly indicating a hypersensitivity reaction to the adhesive.
- Aortitis [see Warnings and Precautions (5.11)]

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Although available data with Neulasta use in pregnant women are insufficient to establish whether there is a drug associated risk of major birth defects, miscarriage, or adverse maternal or fetal outcomes, there are available data from published studies in pregnant women exposed to filgrastim products. These studies have not established an association of filgrastim product use during pregnancy with major birth defects, miscarriage, or adverse maternal or fetal outcomes.

In animal studies, no evidence of reproductive/developmental toxicity occurred in the offspring of pregnant rats that received cumulative doses of pegfilgrastim approximately 10 times the recommended human dose (based on body surface area). In pregnant rabbits, increased embryolethality and spontaneous abortions occurred at 4 times the maximum recommended human dose simultaneously with signs of maternal toxicity (see Data).
The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risks of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

Data

Animal Data

Pregnant rabbits were dosed with pegfilgrastim subcutaneously every other day during the period of organogenesis. At cumulative doses ranging from the approximate human dose to approximately 4 times the recommended human dose (based on body surface area), the treated rabbits exhibited decreased maternal food consumption, maternal weight loss, as well as reduced fetal body weights and delayed ossification of the fetal skull; however, no structural anomalies were observed in the offspring from either study. Increased incidences of post-implantation losses and spontaneous abortions (more than half the pregnancies) were observed at cumulative doses approximately 4 times the recommended human dose, which were not seen when pregnant rabbits were exposed to the recommended human dose.

Three studies were conducted in pregnant rats dosed with pegfilgrastim at cumulative doses up to approximately 10 times the recommended human dose at the following stages of gestation: during the period of organogenesis, from mating through the first half of pregnancy, and from the first trimester through delivery and lactation. No evidence of fetal loss or structural malformations was observed in any study. Cumulative doses equivalent to approximately 3 and 10 times the recommended human dose resulted in transient evidence of wavy ribs in fetuses of treated mothers (detected at the end of gestation but no longer present in pups evaluated at the end of lactation).

8.2 Lactation

Risk Summary

There are no data on the presence of pegfilgrastim in human milk, the effects on the breastfed child, or the effects on milk production. Other filgrastim products are secreted poorly into breast milk, and filgrastim products are not absorbed orally by neonates. The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for Neulasta and any potential adverse effects on the breastfed child from Neulasta or from the underlying maternal condition.

8.4 Pediatric Use

The safety and effectiveness of Neulasta have been established in pediatric patients. No overall differences in safety were identified between adult and pediatric patients based on postmarketing surveillance and review of the scientific literature.

Use of Neulasta in pediatric patients for chemotherapy-induced neutropenia is based on adequate and well-controlled studies in adults with additional pharmacokinetic and safety data in pediatric patients with sarcoma [see Clinical Pharmacology (12.3) and Clinical Studies (14.1)].

The use of Neulasta to increase survival in pediatric patients acutely exposed to myelosuppressive doses of radiation is based on efficacy studies conducted in animals and clinical data supporting the use of Neulasta in patients with cancer receiving myelosuppressive chemotherapy. Efficacy studies of Neulasta could not be conducted in humans with acute radiation syndrome for ethical and feasibility reasons. Results from population modeling and simulation indicate that two doses of Neulasta (Table 1), administered one week apart provide pediatric patients with exposures comparable to that in adults receiving two 6 mg doses one week apart [see Dosage and Administration (2.3), Clinical Pharmacology (12.3) and Clinical Studies (14.2)].

8.5 Geriatric Use

Of the 932 patients with cancer who received Neulasta in clinical studies, 139 (15%) were aged 65 and over, and 18 (2%) were aged 75 and over. No overall differences in safety or effectiveness were
observed between patients aged 65 and older and younger patients.

10 OVERDOSAGE
Overdosage of Neulasta may result in leukocytosis and bone pain. Events of edema, dyspnea, and pleural effusion have been reported in a single patient who administered Neulasta on 8 consecutive days in error. In the event of overdose, the patient should be monitored for adverse reactions [see Adverse Reactions (6)].

11 DESCRIPTION
Pegfilgrastim is a covalent conjugate of recombinant methionyl human G-CSF (filgrastim) and monomethoxypolyethylene glycol. Filgrastim is a water-soluble 175 amino acid protein with a molecular weight of approximately 19 kilodaltons (kD). Filgrastim is obtained from the bacterial fermentation of a strain of E coli transformed with a genetically engineered plasmid containing the human G-CSF gene. To produce pegfilgrastim, a 20 kD monomethoxypolyethylene glycol molecule is covalently bound to the N-terminal methionyl residue of filgrastim. The average molecular weight of pegfilgrastim is approximately 39 kD.

Neulasta is provided in two presentations:
- Neulasta for manual subcutaneous injection is supplied in 0.6 mL prefilled syringes. The prefilled syringe does not bear graduation marks and is designed to deliver the entire contents of the syringe (6 mg/0.6 mL).
- On-body injector (OBI) for Neulasta is supplied with a prefilled syringe containing 0.64 mL of Neulasta in solution that delivers 0.6 mL of Neulasta in solution when used with the OBI for Neulasta. The syringe does not bear graduation marks and is only to be used with the OBI for Neulasta.

The delivered 0.6 mL dose from either the prefilled syringe for manual subcutaneous injection or the OBI for Neulasta contains 6 mg pegfilgrastim (based on protein weight) in a sterile, clear, colorless, preservative-free solution (pH 4.0) containing acetate (0.35 mg), polysorbate 20 (0.02 mg), sodium (0.02 mg), and sorbitol (30 mg) in Water for Injection, USP.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
Pegfilgrastim is a colony-stimulating factor that acts on hematopoietic cells by binding to specific cell surface receptors, thereby stimulating proliferation, differentiation, commitment, and end cell functional activation.

12.2 Pharmacodynamics
Animal data and clinical data in humans suggest a correlation between pegfilgrastim exposure and the duration of severe neutropenia as a predictor of efficacy. Selection of the dosing regimen of Neulasta is based on reducing the duration of severe neutropenia.

12.3 Pharmacokinetics
The pharmacokinetics of pegfilgrastim was studied in 379 patients with cancer. The pharmacokinetics of pegfilgrastim was nonlinear, and clearance decreased with increases in dose. Neutrophil receptor binding is an important component of the clearance of pegfilgrastim, and serum clearance is directly related to the number of neutrophils. In addition to numbers of neutrophils, body weight appeared to be a factor. Patients with higher body weights experienced higher systemic exposure to pegfilgrastim after receiving a dose normalized for body weight. A large variability in the pharmacokinetics of
pegfilgrastim was observed. The half-life of Neulasta ranged from 15 to 80 hours after subcutaneous injection. In healthy volunteers, the pharmacokinetics of pegfilgrastim were comparable when delivered subcutaneously via a manual prefilled syringe versus via the on-body injector (OBI) for Neulasta.

Specific Populations

No gender-related differences were observed in the pharmacokinetics of pegfilgrastim, and no differences were observed in the pharmacokinetics of geriatric patients (≥ 65 years of age) compared with younger patients (< 65 years of age) [see Use in Specific Populations (8.5)].

Renal Impairment

In a study of 30 subjects with varying degrees of renal dysfunction, including end stage renal disease, renal dysfunction had no effect on the pharmacokinetics of pegfilgrastim.

Pediatric Patients with Cancer Receiving Myelosuppressive Chemotherapy

The pharmacokinetics and safety of pegfilgrastim were studied in 37 pediatric patients with sarcoma in Study 4 [see Clinical Studies (14.1)]. The mean (± standard deviation [SD]) systemic exposure (AUCₐ₀₋ᵢₙf) of Neulasta after subcutaneous administration at 100 mcg/kg was 47.9 (± 22.5) mcg·hr/mL in the youngest age group (0 to 5 years, n = 11), 22.0 (± 13.1) mcg·hr/mL in the 6 to 11 years age group (n = 10), and 29.3 (± 23.2) mcg·hr/mL in the 12 to 21 years age group (n = 13). The terminal elimination half-lives of the corresponding age groups were 30.1 (± 38.2) hours, 20.2 (± 11.3) hours, and 21.2 (± 16.0) hours, respectively.

Patients AcutelyExposed to Myelosuppressive Doses of Radiation

The pharmacokinetics of pegfilgrastim is not available in patients acutely exposed to myelosuppressive doses of radiation. Based on limited pharmacokinetic data in irradiated non-human primates, the area under the concentration-time curve (AUC), reflecting the exposure to pegfilgrastim in non-human primates following a 300 mcg/kg dose of Neulasta, appears to be greater than in humans receiving a 6 mg dose. Results from population modeling and simulation indicate that two 6 mg doses of Neulasta administered one week apart in adults result in clinically relevant effects on duration of grade 3 and 4 neutropenia. In addition, weight based dosing in pediatric patients weighing less than 45 kg [see Dosage and Administration, Section (2.3), Table 1] provides exposures comparable to those in adults receiving two 6 mg doses one week apart.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No carcinogenicity or mutagenesis studies have been performed with pegfilgrastim.

Pegfilgrastim did not affect reproductive performance or fertility in male or female rats at cumulative weekly doses approximately 6 to 9 times higher than the recommended human dose (based on body surface area).

14 CLINICAL STUDIES

14.1 Patients with Cancer Receiving Myelosuppressive Chemotherapy

Neulasta was evaluated in three randomized, double-blind, controlled studies. Studies 1 and 2 were active-controlled studies that employed doxorubicin 60 mg/m² and docetaxel 75 mg/m² administered every 21 days for up to 4 cycles for the treatment of metastatic breast cancer. Study 1 investigated the utility of a fixed dose of Neulasta. Study 2 employed a weight-adjusted dose. In the absence of growth factor support, similar chemotherapy regimens have been reported to result in a 100% incidence of severe neutropenia (ANC < 0.5 x 10⁹/L) with a mean duration of 5 to 7 days and a 30% to 40%
incidence of febrile neutropenia. Based on the correlation between the duration of severe neutropenia and the incidence of febrile neutropenia found in studies with filgrastim, duration of severe neutropenia was chosen as the primary endpoint in both studies, and the efficacy of Neulasta was demonstrated by establishing comparability to filgrastim-treated patients in the mean days of severe neutropenia.

In Study 1, 157 patients were randomized to receive a single subcutaneous injection of Neulasta (6 mg) on day 2 of each chemotherapy cycle or daily subcutaneous filgrastim (5 mcg/kg/day) beginning on day 2 of each chemotherapy cycle. In Study 2, 310 patients were randomized to receive a single subcutaneous injection of Neulasta (100 mcg/kg) on day 2 or daily subcutaneous filgrastim (5 mcg/kg/day) beginning on day 2 of each chemotherapy cycle.

Both studies met the major efficacy outcome measure of demonstrating that the mean days of severe neutropenia of Neulasta-treated patients did not exceed that of filgrastim-treated patients by more than 1 day in cycle 1 of chemotherapy. The mean days of cycle 1 severe neutropenia in Study 1 were 1.8 days in the Neulasta arm compared to 1.6 days in the filgrastim arm [difference in means 0.2 (95% CI: -0.2, 0.6)] and in Study 2 were 1.7 days in the Neulasta arm compared to 1.6 days in the filgrastim arm [difference in means 0.1 (95% CI: -0.2, 0.4)].

A secondary endpoint in both studies was days of severe neutropenia in cycles 2 through 4 with results similar to those for cycle 1.

Study 3 was a randomized, double-blind, placebo-controlled study that employed docetaxel 100 mg/m² administered every 21 days for up to 4 cycles for the treatment of metastatic or non-metastatic breast cancer. In this study, 928 patients were randomized to receive a single subcutaneous injection of Neulasta (6 mg) or placebo on day 2 of each chemotherapy cycle. Study 3 met the major trial outcome measure of demonstrating that the incidence of febrile neutropenia (defined as temperature ≥ 38.2°C and ANC ≤ 0.5 x 10⁹/L) was lower for Neulasta-treated patients as compared to placebo-treated patients (1% versus 17%, respectively, p < 0.001). The incidence of hospitalizations (1% versus 14%) and IV anti-infective use (2% versus 10%) for the treatment of febrile neutropenia was also lower in the Neulasta-treated patients compared to the placebo-treated patients.

Study 4 was a multicenter, randomized, open-label study to evaluate the efficacy, safety, and pharmacokinetics [see Clinical Pharmacology (12.3)] of Neulasta in pediatric and young adult patients with sarcoma. Patients with sarcoma receiving chemotherapy age 0 to 21 years were eligible. Patients were randomized to receive subcutaneous Neulasta as a single-dose of 100 mcg/kg (n = 37) or subcutaneous filgrastim at a dose 5 mcg/kg/day (n = 6) following myelosuppressive chemotherapy. Recovery of neutrophil counts was similar in the Neulasta and filgrastim groups. The most common adverse reaction reported was bone pain.

### 14.2 Patients with Hematopoietic Subsyndrome of Acute Radiation Syndrome

Efficacy studies of Neulasta could not be conducted in humans with acute radiation syndrome for ethical and feasibility reasons. Approval of this indication was based on efficacy studies conducted in animals and data supporting Neulasta’s effect on severe neutropenia in patients with cancer receiving myelosuppressive chemotherapy [see Dosage and Administration (2.1)].

The recommended dose of Neulasta is two doses, 6 mg each, administered one week apart for humans exposed to myelosuppressive doses of radiation. For pediatric patients weighing less than 45 kg, dosing of Neulasta is weight based and is provided in Table 1 [see Dosage and Administration (2.3)]. This dosing regimen is based on population modeling and simulation analyses. The exposure associated with this dosing regimen is expected to provide sufficient pharmacodynamic activity to treat humans exposed to myelosuppressive doses of radiation [see Clinical Pharmacology (12.3)]. The safety of Neulasta at a dose of 6 mg has been assessed on the basis of clinical experience in patients with cancer receiving myelosuppressive chemotherapy.

The efficacy of Neulasta for the acute radiation syndrome setting was studied in a randomized, placebo-controlled non-human primate model of radiation injury. Rhesus macaques were randomized to either a
control (n = 23) or treated (n = 23) cohort. On study day 0, animals (n = 6 to 8 per irradiation day) were exposed to total body irradiation (TBI) of \(7.50 \pm 0.15\) Gy delivered at \(0.8 \pm 0.03\) Gy/min, representing a dose that would be lethal in 50% of animals by 60 days of follow-up (LD50/60). Animals were administered subcutaneous injections of a blinded treatment (control article [5% dextrose in water] or pegfilgrastim [300-319 mcg/kg/day]) on study day 1 and on study day 8. The primary endpoint was survival. Animals received medical management consisting of intravenous fluids, antibiotics, blood transfusions, and other support as required.

Pegfilgrastim significantly (at 0.0014 level of significance) increased 60-day survival in irradiated non-human primates: 91% survival (21/23) in the pegfilgrastim group compared to 48% survival (11/23) in the control group.

16 HOW SUPPLIED/STORAGE AND HANDLING

Neulasta single-dose prefilled syringe for manual use

Neulasta injection is a clear, colorless solution supplied in a prefilled single-dose syringe for manual use containing 6 mg pegfilgrastim, supplied with a 27-gauge, 1/2-inch needle with an UltraSafe® Needle Guard.

The needle cap of the prefilled syringe contains dry natural rubber (a derivative of latex).

Neulasta is provided in a dispensing pack containing one sterile 6 mg/0.6 mL prefilled syringe (NDC 55513-190-01).

Neulasta prefilled syringe does not bear graduation marks and is intended only to deliver the entire contents of the syringe (6 mg/0.6 mL) for direct administration. Use of the prefilled syringe is not recommended for direct administration for pediatric patients weighing less than 45 kg who require doses that are less than the full contents of the syringe.

Store refrigerated between 36°F to 46°F (2°C to 8°C) in the carton to protect from light. Do not shake. Discard syringes stored at room temperature for more than 48 hours. Avoid freezing; if frozen, thaw in the refrigerator before administration. Discard syringe if frozen more than once.

Neulasta Onpro® kit

Neulasta Onpro kit is provided in a carton containing one sterile prefilled syringe and one sterile on-body injector (OBI) for Neulasta (NDC 55513-192-01).

The Neulasta injection single-dose prefilled syringe contains 0.64 mL of a clear, colorless solution that delivers 6 mg/0.6 mL of pegfilgrastim when used with the OBI for Neulasta. The prefilled syringe is supplied with a 27-gauge, 1/2-inch needle. The syringe does not bear graduation marks and is only to be used with the OBI for Neulasta.

The needle cap of the prefilled syringe contains dry natural rubber (a derivative of latex).

Store Neulasta Onpro kit in the refrigerator at 36°F to 46°F (2°C to 8°C) until 30 minutes prior to use. Because the OBI for Neulasta is at room temperature during the period of use, Neulasta Onpro kit should not be held at room temperature longer than 12 hours prior to use. Discard Neulasta Onpro kit if stored at room temperature for more than 12 hours.

Do not use the OBI for Neulasta if its packaging has been previously opened.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information and Instructions for Use).

Advise patients of the following risks and potential risks with Neulasta:

- Splenic rupture and splenomegaly
• Acute Respiratory Distress Syndrome
• Serious allergic reactions
• Sickle cell crisis
• Glomerulonephritis
• Capillary Leak Syndrome
• Aortitis

Advise patients acutely exposed to myelosuppressive doses of radiation (Hematopoietic Subsyndrome of Acute Radiation Syndrome) that efficacy studies of Neulasta for this indication could not be conducted in humans for ethical and feasibility reasons and that, therefore, approval of this use was based on efficacy studies conducted in animals [see Clinical Studies (14.2)].

Instruct patients who self-administer Neulasta using the single-dose prefilled syringe of the:
• Importance of following the Instructions for Use.
• Dangers of reusing syringes.
• Importance of following local requirements for proper disposal of used syringes.

Advise patients on the use of the on-body injector (OBI) for Neulasta:
• Review the Patient Information and Patient Instructions for Use with the patient and provide the instructions to the patient.
• Refer the patient to the dose delivery information written on the Patient Instructions for Use.
• Tell the patient when their dose delivery of Neulasta will begin and when their dose delivery should be completed.
• Advise the patient that serious allergic reactions can happen with Neulasta. Patients should have a caregiver nearby for the first use. Patients should plan to be in a place where they can appropriately monitor the OBI for Neulasta during the approximately 45 minute Neulasta delivery and for an hour after the delivery. Advise the patient to avoid traveling, driving, or operating heavy machinery during hours 26-29 following application of the OBI for Neulasta.
• If the OBI for Neulasta is placed on the back of the arm, remind the patient that a caregiver must be available to monitor the OBI for Neulasta.
• If a patient calls the healthcare provider regarding any OBI for Neulasta problems, the healthcare provider is advised to call Amgen at 1-800-772-6436.
• Advise the patient:
  o to call their healthcare provider immediately if the status light on the OBI for Neulasta is flashing red (see the Patient Instructions for Use).
  o to inform their healthcare provider if the adhesive on the OBI for Neulasta becomes saturated with fluid, or there is dripping, as this may be evidence of significant product leakage, resulting in inadequate or missed dose (see the Patient Instructions for Use).
  o to keep the OBI for Neulasta dry for approximately the last 3 hours prior to the dose delivery start to better enable potential leak detection.
  o that the OBI for Neulasta should only be exposed to temperatures between 41°F and 104°F (5°C-40°C).
  o to keep the OBI for Neulasta at least 4 inches away from electrical equipment such as cell phones, cordless telephones, microwaves, and other common appliances. Failure to keep the OBI for Neulasta at least this recommended distance may interfere with operation and can lead to a missed or incomplete dose of Neulasta.
  o that if the needle is exposed after OBI for Neulasta removal, place the used OBI for Neulasta in a sharps disposal container to avoid accidental needle stick and call their healthcare provider immediately.
  o to remove the OBI for Neulasta after the green light shines continuously and to place the used OBI for Neulasta in a sharps disposal container (see the Patient Instructions for Use).
Advise the patient:
- do not reapply the OBI for Neulasta if the OBI for Neulasta comes off before full dose is delivered and instead call their healthcare provider immediately, as they may need a replacement dose.
- avoid bumping the OBI for Neulasta or knocking the OBI for Neulasta off the body.
- do not use additional materials to hold the on-body injector in place, as this could dislodge the cannula and lead to a missed dose or incomplete dose of Neulasta.
- do not expose the OBI for Neulasta to medical imaging studies (e.g., X-ray scan, MRI, CT scan and ultrasound), radiation treatment, and oxygen rich environments such as hyperbaric chambers to avoid OBI for Neulasta damage and patient injury.

Advise the patient to avoid:
- airport X-ray scans and request a manual pat down instead; remind patients who elect to request a manual pat down to exercise care to avoid having the OBI for Neulasta dislodged during the pat down process.
- sleeping on the OBI for Neulasta or applying pressure on the OBI for Neulasta as this may affect OBI for Neulasta performance.
- getting body lotions, creams, oils, and cleaning agents near the OBI for Neulasta as these products may loosen the adhesive.
- using bath tubs, hot tubs, whirlpools, or saunas and avoid exposing the OBI for Neulasta to direct sunlight as these may affect the drug.
- peeling off or disturbing the OBI for Neulasta adhesive before delivery of full dose is complete.

Neulasta® (pegfilgrastim)
Manufactured by:
Amgen Inc.
One Amgen Center Drive
Thousand Oaks, California 91320-1799
U.S. License No. 1080
Patent: http://pat.amgen.com/onpro/
© 2002-2018 Amgen Inc. All rights reserved.
www.neulasta.com
1-800-77-AMGEN (1-800-772-6436)

Patient Information
Neulasta® (nu-las-tah)
(pegfilgrastim)
injection
Single-Dose Prefilled Syringe

What is Neulasta?
Neulasta is a man-made form of granulocyte colony-stimulating factor (G-CSF). G-CSF is a substance produced by the body. It stimulates the growth of neutrophils, a type of white blood cell important in the body’s fight against infection.
Acute Radiation Syndrome: The effectiveness of Neulasta for this use was only studied in animals, because it could not be studied in people.

Do not take Neulasta if you have had a serious allergic reaction to pegfilgrastim or filgrastim.
Before you receive Neulasta, tell your healthcare provider about all of your medical conditions, including if you:

- have a sickle cell disorder.
- have kidney problems.
- are allergic to latex. The needle cap on the prefilled syringe contains dry natural rubber (derived from latex). You should not give Neulasta using the prefilled syringe if you have latex allergies.
- are pregnant or plan to become pregnant. It is not known if Neulasta will harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if Neulasta passes into your breast milk.

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

How will I receive Neulasta?

- Neulasta is given as an injection under your skin (subcutaneous injection) by a healthcare provider. If your healthcare provider decides that the subcutaneous injections can be given at home by you or your caregiver, follow the detailed “Instructions for Use” that comes with your Neulasta for information on how to prepare and inject a dose of Neulasta.
- You and your caregiver will be shown how to prepare and inject Neulasta before you use it.
- You should not inject a dose of Neulasta to children weighing less than 45 kg from a Neulasta prefilled syringe. A dose less than 0.6 mL (6 mg) cannot be accurately measured using the Neulasta prefilled syringe.
- If you are receiving Neulasta because you are also receiving chemotherapy, the last dose of Neulasta should be injected at least 14 days before and 24 hours after your dose of chemotherapy.
- If you miss a dose of Neulasta, talk to your healthcare provider about when you should give your next dose.

What are possible side effects of Neulasta?

Neulasta may cause serious side effects, including:

- **Spleen rupture.** Your spleen may become enlarged and can rupture. A ruptured spleen can cause death. Call your healthcare provider right away if you have pain in the left upper stomach area or your left shoulder.
- **A serious lung problem called Acute Respiratory Distress Syndrome (ARDS).** Call your healthcare provider or get emergency help right away if you have shortness of breath with or without a fever, trouble breathing, or a fast rate of breathing.
- **Serious allergic reactions.** Neulasta can cause serious allergic reactions. These reactions can cause a rash over your whole body, shortness of breath, wheezing, dizziness, swelling around your mouth or eyes, fast heart rate, and sweating. If you have any of these symptoms, stop using Neulasta and call your healthcare provider or get emergency medical help right away.
- **Sickle cell crises.** You may have a serious sickle cell crisis, which could lead to death, if you have a sickle cell disorder and receive Neulasta. Call your healthcare provider right away if you have symptoms of sickle cell crisis such as pain or difficulty breathing.
- **Kidney injury (glomerulonephritis).** Neulasta can cause kidney injury. Call your healthcare provider right away if you develop any of the following symptoms:
  - swelling of your face or ankles
  - blood in your urine or dark colored urine
  - you urinate less than usual
- **Increased white blood cell count (leukocytosis).** Your healthcare provider will check
your blood during treatment with Neulasta.

- **Capillary Leak Syndrome.** Neulasta can cause fluid to leak from blood vessels into your body’s tissues. This condition is called “Capillary Leak Syndrome” (CLS). CLS can quickly cause you to have symptoms that may become life-threatening. Get emergency medical help right away if you develop any of the following symptoms:
  - swelling or puffiness and are urinating less than usual
  - trouble breathing
  - swelling of your stomach area (abdomen) and feeling of fullness
  - dizziness or feeling faint
  - a general feeling of tiredness

- **Inflammation of the aorta (aortitis).** Inflammation of the aorta (the large blood vessel which transports blood from the heart to the body) has been reported in patients who received Neulasta. Symptoms may include fever, abdominal pain, feeling tired, and back pain. Call your healthcare provider if you experience these symptoms.

The most common side effects of Neulasta are pain in the bones, arms, and legs. These are not all the possible side effects of Neulasta. Call your healthcare provider for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

**How should I store Neulasta?**
- Store Neulasta in the refrigerator between 36°F to 46°F (2°C to 8°C).
- Do not freeze.
- Keep the prefilled syringe in the original carton to protect from light or physical damage.
- Do not shake the prefilled syringe.
- Take Neulasta out of the refrigerator 30 minutes before use and allow it to reach room temperature before preparing an injection.
- Throw away (dispose of) any Neulasta that has been left at room temperature, 68°F to 77°F (20°C to 25°C), for more than 48 hours.

**Keep the Neulasta prefilled syringe out of the reach of children.**

**General information about the safe and effective use of Neulasta.**
Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use Neulasta for a condition for which it was not prescribed. Do not give Neulasta to other people, even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or healthcare provider for information about Neulasta that is written for health professionals.

**What are the ingredients in Neulasta?**
Active ingredient: pegfilgrastim
Inactive ingredients: acetate, polysorbate 20, sodium and sorbitol in water for injection.
Manufactured by:
Amgen Inc., One Amgen Center Drive, Thousand Oaks, California 91320-1799
U.S. License No. 1080
Patent: http://pat.amgen.com/onpro/
©2002- 2018 Amgen Inc. All rights reserved.
For more information go to www.neulasta.com, or call 1-800-77-AMGEN (1-800-772-6436).

This Patient Information has been approved by the U.S. Food and Drug Administration. Revised: 06/2018

**Patient Information**
Neulasta® (nu-las-tah)
(pegfilgrastim)
injection
On-body injector for Neulasta

What is the most important information I need to know about receiving Neulasta with the on-body injector for Neulasta?

- See the Instructions for Use for the on-body injector for Neulasta for detailed information about the on-body injector for Neulasta and important information about your dose delivery that has been written by your healthcare provider.
  - Know the time that delivery of your dose of Neulasta is expected to start.
  - Avoid traveling, driving, or operating heavy machinery during hour 26 through hour 29 after the on-body injector for Neulasta is applied. Avoid activities and places that may interfere with monitoring during the 45-minute period that Neulasta is expected to be delivered by the on-body injector for Neulasta, and for 1 hour after delivery.
- A caregiver should be with you the first time that you receive Neulasta with the on-body injector for Neulasta.
- If placed on the back of the arm, a caregiver must be available to monitor the status of the on-body injector.
- If you have an allergic reaction during the delivery of Neulasta, remove the on-body injector for Neulasta by grabbing the edge of the adhesive pad and peeling off the on-body injector for Neulasta. Get emergency medical help right away.
- You should only receive a dose of Neulasta on the day your healthcare provider tells you.
- You should not receive your dose of Neulasta any sooner than 24 hours after you finish receiving your chemotherapy. The on-body injector for Neulasta is programmed to deliver your dose about 27 hours after your healthcare provider places the on-body injector for Neulasta on your skin.
- Do not expose the on-body injector for Neulasta to the following because the on-body injector for Neulasta may be damaged and you could be injured:
  - Diagnostic imaging (e.g., CT Scan, MRI, Ultrasound, X-ray)
  - Radiation treatment
  - Oxygen rich environments, such as hyperbaric chambers
- Avoid airport X-ray scans. Request a manual pat down instead. Use care during a manual pat down to help prevent the on-body injector for Neulasta from being accidentally removed.
- Keep the on-body injector for Neulasta at least 4 inches away from electrical equipment such as cell phones, cordless telephones, microwaves and other common appliances. If the on-body injector for Neulasta is too close to electrical equipment, it may not work correctly and can lead to a missed or incomplete dose of Neulasta.
- The on-body injector is for adult patients only.
- If your on-body injector is not working properly, you may miss your dose or you may not receive your full dose of Neulasta. If you miss your dose or do not receive your full dose of Neulasta, you may have an increased risk of developing fever or infection.
- Call your healthcare provider right away, as you may need a replacement dose, if any of the following occur:
  - on-body injector for Neulasta comes off before or during a dose delivery. Do not re-apply it.
  - on-body injector for Neulasta is leaking.
  - adhesive on your on-body injector for Neulasta becomes noticeably wet (saturated) with fluid, or there is dripping. This may mean that Neulasta is leaking out of your on-body injector for Neulasta. If this happens you may only receive some of your dose of Neulasta, or you may not receive a dose at all.
  - on-body injector for Neulasta status light is flashing red.
What is Neulasta?

Neulasta is a prescription medicine used to help reduce the chance of infection due to a low white blood cell count, in people with certain types of cancer (non-myeloid), who receive anti-cancer medicines (chemotherapy) that can cause fever and low blood cell count.

Do not take Neulasta if you have had a serious allergic reaction to pegfilgrastim or filgrastim.

Before you receive Neulasta, tell your healthcare provider about all of your medical conditions, including if you:

- have a sickle cell disorder
- have had severe skin reactions to acrylic adhesives
- are allergic to latex. The needle cap on the prefilled syringe contains dry natural rubber (derived from latex).
- have kidney problems
- are breastfeeding or plan to breastfeed. It is not known if Neulasta passes into your breast milk.
- are pregnant or plan to become pregnant. It is not known if Neulasta may harm your unborn baby.

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

How will I receive Neulasta?

See the Instructions for Use for detailed information about how you will receive a dose of Neulasta with the on-body injector for Neulasta, and how to remove and dispose of the on-body injector for Neulasta.

- See the section “What is the most important information I need to know about receiving Neulasta with the on-body injector for Neulasta?”
- Neulasta is given as an injection under the skin (subcutaneous). Your healthcare provider will use a prefilled syringe with Neulasta to fill the on-body injector prior to applying it. The prefilled syringe with Neulasta and the on-body injector are provided to your healthcare provider as part of Neulasta Onpro® kit. The on-body injector for Neulasta will be applied to the stomach area (abdomen) or back of your arm by your healthcare provider. If the on-body injector for Neulasta was placed on the back of your arm, a caregiver must be available to monitor the on-body injector for Neulasta.
- Your healthcare provider should place the on-body injector for Neulasta on an area of your skin that does not have swelling, redness, cuts, wounds, or abrasions. Tell your healthcare provider about any skin reactions that happen in the on-body injector for Neulasta application area after it has been applied.
- The on-body injector for Neulasta is programmed to deliver your dose about 27 hours after your healthcare provider places the on-body injector for Neulasta on your skin.
- The dose of Neulasta will be delivered over about 45 minutes. During dose delivery and for 1 hour after delivery, it is best to stay in a place where you or a caregiver can monitor the on-body injector for Neulasta to make sure you receive your full dose of Neulasta and watch for symptoms of an allergic reaction.
- Your healthcare provider will show you how to monitor the on-body injector for Neulasta to make sure delivery has been completed.
- Keep the on-body injector for Neulasta dry for about the last 3 hours before the dose delivery is expected to start. This will help you to better detect possible leaking from the on-body injector for Neulasta.
- Only expose the on-body injector for Neulasta to temperatures between 41°F to 104°F (5°C to 40°C).

While the on-body injector for Neulasta is in place you should avoid:
traveling, driving or operating heavy machinery during hour 26 through hour 29 after the on-body injector for Neulasta is applied.

- sleeping on the on-body injector for Neulasta or applying pressure on the on-body injector for Neulasta. The on-body injector for Neulasta may not work properly.
- bumping the on-body injector for Neulasta or knocking it off your body.
- using additional materials to hold the on-body injector in place, as this could move the cannula out of the correct position (dislodge) and lead to a missed dose or incomplete dose of Neulasta.
- getting body lotion, creams, oils, and skin cleansing products near the on-body injector for Neulasta. These products may loosen the adhesive that holds the on-body injector for Neulasta onto your body.
- using bath tubs, hot tubs, whirlpools, or saunas, and direct sunlight. These may affect Neulasta.
- peeling off or disturbing the on-body injector for Neulasta adhesive before you receive your full dose of Neulasta.

**What are the possible side effects of Neulasta?**

**Neulasta may cause serious side effects, including:**

- **Spleen rupture.** Your spleen may become enlarged and can rupture. A ruptured spleen can cause death. Call your healthcare provider right away if you have pain in your left upper stomach area or left shoulder.
- **A serious lung problem called Acute Respiratory Distress Syndrome (ARDS).** Call your healthcare provider or get emergency medical help right away if you have shortness of breath with or without a fever, trouble breathing, or a fast rate of breathing.
- **Serious allergic reactions.** Neulasta can cause serious allergic reactions. These reactions can cause a rash over your whole body, shortness of breath, wheezing, dizziness, swelling around your mouth or eyes, fast heart rate and sweating.
- **If you have an allergic reaction during the delivery of Neulasta, remove the on-body injector for Neulasta by grabbing the edge of the adhesive pad and peeling off the on-body injector for Neulasta. Get emergency medical help right away.**

- **Sickle cell crises.** You may have a serious sickle cell crisis, which could lead to death, if you have a sickle cell disorder and receive Neulasta. Call your healthcare provider right away if you develop symptoms of sickle cell crisis such as pain or difficulty breathing.

- **Kidney injury (glomerulonephritis).** Neulasta can cause kidney injury. Call your healthcare provider right away if you develop any of the following symptoms:
  - swelling of your face or ankles
  - blood in your urine or dark colored urine
  - you urinate less than usual

- **Increased white blood cell count (leukocytosis).** Your healthcare provider will check your blood during treatment with Neulasta.
- **Capillary Leak Syndrome.** Neulasta can cause fluid to leak from blood vessels into your body’s tissues. This condition is called “Capillary Leak Syndrome” (CLS). CLS can quickly cause you to have symptoms that may become life-threatening. Get emergency medical help right away if you develop any of the following symptoms:
  - swelling or puffiness and are urinating less than usual
  - trouble breathing
  - swelling of your stomach-area (abdomen) and feeling of fullness
  - dizziness or feeling faint
  - a general feeling of tiredness
- **Inflammation of the aorta (aortitis).** Inflammation of the aorta (the large blood vessel which transports blood from the heart to the body) has been reported in patients who received Neulasta. Symptoms may include fever, abdominal pain, feeling tired, and back pain. Call your healthcare...
provider if you experience these symptoms.

The most common side effect of Neulasta is pain in your bones, and in your arms, and legs.

These are not all the possible side effects of Neulasta. For more information, ask your healthcare provider or pharmacist.

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

**General information about the safe and effective use of Neulasta**

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. If you would like more information about Neulasta, talk with your healthcare provider or pharmacist. You can ask your pharmacist for information about Neulasta that is written for health professionals.

**What are the ingredients in Neulasta?**

**Active ingredient:** pegfilgrastim

**Inactive ingredients:** acetate, polysorbate 20, sodium and sorbitol in Water for Injection

**Manufactured by:**
Amgen Inc., One Amgen Center Drive, Thousand Oaks, California 91320-1799
US License No. 1080


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For more information, go to [www.neulasta.com](http://www.neulasta.com) or call 1-844-696-3852 (1-844-MYNEULASTA). v5

This Patient Information has been approved by the U.S. Food and Drug Administration. Revised: 06/2018

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**Neulasta® (pegfilgrastim) Onpro® kit**

Healthcare Provider Instructions for Use

**Guide to Parts**

**Neulasta Prefilled Syringe**

**On-body Injector for Neulasta**
Important

READ THE FOLLOWING INSTRUCTIONS BEFORE USING NEULASTA ONPRO KIT

Warning: Do not use Neulasta Onpro kit to deliver any other drug product.

- See Prescribing Information for information on Neulasta.
- The on-body injector is for adult patients only.
- The on-body injector is not recommended for patients with Hematopoietic Subsyndrome of Acute Radiation Syndrome.
- Store Neulasta Onpro kit in the refrigerator at 36°F to 46°F (2°C to 8°C) until ready for use. If Neulasta Onpro kit is stored at room temperature for more than 12 hours, do not use. Start again with a new Neulasta Onpro kit.
- Keep the prefilled syringe in Neulasta Onpro kit carton until use to protect from light.
- For patients who have had severe skin reactions to acrylic adhesives, consider the benefit: risk profile before administering pegfilgrastim via the on-body injector for Neulasta.
- The on-body injector should be applied to intact, non-irritated skin on the abdomen or back of the arm. The back of the arm may only be used if there is a caregiver available to monitor the status of the on-body injector.
- The on-body injector has a self-adhesive backing to attach it to the skin.
- Do not use additional materials to hold it in place as this could dislodge the cannula and lead to a missed or incomplete dose of Neulasta.
- Do not freeze Neulasta Onpro kit.
- Do not shake the prefilled syringe.
- Do not separate the components of Neulasta Onpro kit until ready for use.
- Do not modify the on-body injector.
- Do not warm Neulasta Onpro kit components using a heat source.
- Do not use Neulasta Onpro kit if expiry date on the carton or any of Neulasta Onpro kit components has passed.
- Do not use if the name Neulasta does not appear on Neulasta Onpro kit carton.
- Do not attempt to reapply the on-body injector.
• Do not use if either the on-body injector or prefilled syringe is dropped. Start again with a new Neulasta Onpro kit.

For all questions, call Amgen at 1-800-772-6436. If a patient calls you regarding any on-body injector problems, call Amgen at 1-800-772-6436.

---

**Step 1: Prepare**

**Remove Neulasta Onpro kit from the refrigerator.**

A Place the syringe tray and on-body injector tray on a clean, well lit work surface. Allow to come to room temperature for 30 minutes prior to activating. Check to make sure it contains:

- One Neulasta prefilled syringe
- One on-body injector for Neulasta
- Neulasta Patient Information
- Neulasta Prescribing Information
- Instructions for Use for healthcare provider
- Instructions for Use for patient
- Reference Guide

Do not use the on-body injector if its packaging has been previously opened.

B Choose the patient's injection site.

Choose the flattest site for the on-body injector application.

Consult with the patient regarding their ability to remove and monitor the entire on-body injector.

- You can use the left or right side of the abdomen, except for a two-inch area right around navel.
- You can use the back of upper arm only if there is a caregiver available to monitor the status of the on-body injector.
- Do not apply the on-body injector on areas with scar tissue, moles, or excessive hair. In case of excessive hair, carefully trim hair to get the on-body injector close to the skin.
- Do not apply the on-body injector on areas where belts, waistbands, or tight clothing may rub against, disturb, or dislodge the on-body injector.
- Do not apply the on-body injector on surgical sites.
- Do not apply the on-body injector on areas where the on-body injector will be affected by folds in the skin.

---

The following is an overview of on-body injector preparation steps. Read this section first.

Before you apply the on-body injector to the patient, locate the medicine port on the blue needle
cover to fill the on-body injector with Neulasta.

**Please note:** During filling, beeping will sound and the on-body injector will be activated.

**After activation, you will have three minutes to:**

1. Completely empty syringe contents into the medicine port.
2. Remove the syringe from the port and dispose.
3. Remove the blue needle cover from back of the on-body injector.
4. Peel away the two pieces of white adhesive backing from the back of the on-body injector.
5. Attach the on-body injector to the back of patient’s upper arm or abdomen.

The on-body injector will deploy the cannula in three minutes, even if not applied to the patient. If not on patient’s body in three minutes, do not use the on-body injector. Start again with a new Neulasta Onpro kit.

**When you feel you are ready, please continue...**

**C Clean an area on the injection site larger than the on-body injector adhesive backing.**
- Thoroughly cleaning the site will help the on-body injector adhere to the skin. **Do not** use any cleaner other than alcohol, especially those containing oils, lotions, or aloe.
- Make sure the skin is oil-free prior to applying the on-body injector. Allow the skin to completely dry.
- **Do not** touch this area again before attaching the on-body injector.

---

**Step 2: Get Ready**

**A Remove Neulasta prefilled syringe from tray.**

For safety reasons:
- **Do not** grasp the gray needle cap.
- **Do not** remove the gray needle cap until ready to fill the on-body injector.
• Do not grasp the plunger rod.

B Inspect medicine and Neulasta prefilled syringe. Neulasta liquid should always be clear and colorless.

- Do not use if the liquid contains particulate matter or discoloration is observed prior to administration.
- Do not use if any part appears cracked or broken.
- Do not use if the gray needle cap is missing or not securely attached.
- Do not use if the expiration date printed on the label has passed.
- Do not remove the gray needle cap until ready to fill the on-body injector.

In all the above cases, start again with a new kit. Call Amgen at 1-800-772-6436.

Neulasta prefilled syringe gray needle cap contains dry natural rubber, which is derived from latex.

C Remove air bubbles in prefilled syringe.

- Carefully remove the gray needle cap straight out and away from your body.
- Gently tap the syringe with your finger until air bubbles rise to the top.
- Slowly push air out of the syringe, taking care to expel air only, not medicine.
- A small droplet at the tip of the needle during air purging is normal.
- Do not recap the syringe.

D Center the needle directly over the medicine port at a 90 degree angle. Insert all the way into the port, avoiding sides.
Insert needle into medicine port at a 90 degree angle only.
- Do not insert the needle more than once.
- Do not bend the needle. Avoid spilling the medicine.
- Do not remove the blue needle cover before filling the on-body injector.

Push the plunger rod to empty entire syringe contents. During filling, you will hear beeping. The status light will flash amber, indicating you now have three minutes to apply the on-body injector to the patient.

Discard used syringe in sharps container.

Check to see if the on-body injector is full and the amber light is flashing.
You should see the amber status light flashing and a black line next to FULL on the fill indicator. If this is not the case, do not use. Start again with a new Neulasta Onpro kit, and call Amgen at 1-800-772-6436.

G **Firmly lift and remove the blue needle cover away from the on-body injector.**

A drop of medicine may be visible on the needle tip when the blue needle cover is removed.

---

**Step 3: Apply**

A **Peel away both pull tabs to show the adhesive. Never touch hands or gloves to the adhesive.**

- **Do not** touch or contaminate the automatic needle area.
- **Do not** pull off the adhesive pad or fold it.
**Do not** use if the needle or cannula is extended past the adhesive or is extended before the on-body injector is placed on the patient.

**Do not place adhesive on skin that is damp.**

In all cases, start again with a new kit. Call Amgen at 1-800-772-6436.

---

**B Before the cannula deploys, securely apply the on-body injector so it is visible and can be monitored by the patient or caregiver.**

You now have time to carefully apply the on-body injector without folding or wrinkling the adhesive.

- **Do not** touch the adhesive.
- Grasp the on-body injector’s plastic case with your fingertips and only by sides, keeping fingers off of the adhesive.
- **Do not** let the adhesive bend or curl while applying the on-body injector to skin.
- **Important:** Once on the skin, **press firmly on the on-body injector** to ensure proper adhesion to the patient’s skin.
- Press around the entire adhesive so it lies down without folds or wrinkles.
- Hold the top of the on-body injector and run finger around the adhesive to create a secure attachment.
- **Do not** use any additional materials to secure the on-body injector to the patient.
Back of upper arm (triceps)
Vertical with the light facing down toward the elbow

Abdomen
Horizontal with the light facing up and visible to the patient

**STOP** Do not worry if the on-body injector is quiet. When three minutes are up, the on-body injector will beep telling you the cannula is about to insert.

Wait for the status light to turn green. This means the cannula has been inserted.

Do not remove the on-body injector during cannula insertion to avoid needle stick injury to you or to the patient.

**STOP** Check the quality of adhesion before sending the patient home.

If the adhesive is wrinkled in front of the cannula window or has folds anywhere that prevent the on-body injector from securely adhering, remove the on-body injector. Start again with a new kit and call Amgen at 1-800-772-6436.
Step 4: Finish

Fill in the Dose Delivery Information section in the patient instructions. Be sure to include when the on-body injector was applied, when the dose will begin, and your contact information. Review this information with the patient.

Review each step in the patient instructions with the patient. Give the patient the instructions for use, reference guide, patient information and prescribing information to take home.

Before the patient goes home, make sure the patient understands:

- The on-body injector will always flash a slow green light to let them know it is working properly.
- **After approximately 27 hours, a series of beeps will signal that the dose delivery will begin in two minutes.**
- **When the dose delivery starts it will take about 45 minutes to complete. During this time, the on-body injector will flash a fast green light.**

  The patient should remain in a place where they can monitor the on-body injector for the entire dose delivery. The patient should avoid activities and settings that may interfere with monitoring during the dosing of Neulasta administered by the on-body injector. For example, avoid traveling, driving, or operating heavy machinery during hours 26-29 following application of the on-body injector (this includes the approximately 45 minute delivery period plus an hour post-delivery).

  - If the patient has an allergic reaction during the delivery of Neulasta, the patient should remove the on-body injector and call his or her healthcare provider or seek emergency care right away.
  - If placed on the back of the arm, remind the patient that a caregiver must be available to monitor the on-body injector.
  - The on-body injector has a self-adhesive backing to attach it to the skin, **do not** use additional materials to hold it in place as this could dislodge the cannula and lead to a missed or incomplete dose of Neulasta.
  - When the dose delivery is complete, the patient or caregiver will hear a long beep and see a solid green light.
  - If the red error light is on, the adhesive is noticeably wet (saturated), or the on-body injector is dislodged, the patient should contact their healthcare provider immediately as they may need a replacement dose.
  - Always dispose of the empty on-body injector in a sharps disposal container as instructed by your healthcare provider or by state or local laws.
• Keep the on-body injector at least four inches away from electrical equipment such as cell phones, cordless telephones, microwaves and other common appliances. Failure to keep the on-body injector at least this recommended distance may interfere with operation and can lead to a missed or incomplete dose of Neulasta.

---

**Attention!**

**What to do if you hear beeping or when you look at status light and it is flashing red.**

If at any time the on-body injector beeps continuously for five minutes, and the status light is flashing red, take the on-body injector off of the patient.

- **Do not** apply the on-body injector to the patient if red error light is on.
- **Do not** leave the on-body injector on the patient if red error light is on.

In all cases, do not use. Start over with a new Neulasta Onpro kit, and call Amgen at 1-800-772-6436.

If the patient reports the red status light is on, they may not have received the full dose. Schedule a follow-up appointment and report the incident to Amgen at 1-800-772-6436.

**What to do if the adhesive becomes saturated with fluid or the on-body injector is dripping.**
If the patient reports an on-body injector leak, they may not have received the full dose. Schedule a follow-up appointment, and report the incident to Amgen at 1-800-772-6436.

Neulasta® (pegfilgrastim)

Manufactured by:
Amgen Inc.
One Amgen Center Drive
Thousand Oaks, California 91320-1799
US License No. 1080
Patent: http://pat.amgen.com/onpro/
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Do not expose the on-body injector for Neulasta to the following environments as the on-body injector may be damaged and the patient could be injured:
- Diagnostic imaging (e.g., CT Scan, MRI, Ultrasound, X-ray)
- Radiation treatment
- Oxygen rich environments such as hyperbaric chambers

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Image]</td>
<td>Do not reuse this on-body injector. Single-use only</td>
</tr>
<tr>
<td>![Image]</td>
<td>Refer to Instructions for Use</td>
</tr>
<tr>
<td>![Image]</td>
<td>Do not use if packaging is damaged</td>
</tr>
<tr>
<td>![Image]</td>
<td>Temperature limitation</td>
</tr>
<tr>
<td>Humidity limitation</td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td></td>
</tr>
<tr>
<td>Expiration date (use by date)</td>
<td></td>
</tr>
<tr>
<td>Reference/model number</td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>Type BF medical device (protection from electrical shock)</td>
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</tr>
<tr>
<td>Sterilized by ethylene oxide</td>
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</tr>
<tr>
<td>Waterproof up to 8 feet for 1 hour</td>
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</tr>
<tr>
<td>Prescription use only</td>
<td></td>
</tr>
<tr>
<td>Not MRI-safe</td>
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<tr>
<td>On-body injector for Neulasta® (pegfilgrastim)</td>
<td></td>
</tr>
<tr>
<td>Neulasta® (pegfilgrastim) prefilled syringe</td>
<td></td>
</tr>
</tbody>
</table>

**Electromagnetic Compatibility**

The information contained in this section (such as separation distances) is, in general, specifically written in regard to the on-body injector for Neulasta. The numbers provided will not guarantee faultless operation but should provide reasonable assurance of such. This information may not be applicable to other medical electrical equipment; older equipment may be particularly susceptible to interference.

**General Notes:**

Medical electrical equipment requires special precautions regarding electromagnetic compatibility (EMC), and needs to be installed and put into service according to the EMC information provided in this document.

Portable and mobile RF communications equipment can affect medical electrical equipment.

Cables and accessories not specified within the instructions for use are not authorized. Using cables and/or accessories may adversely impact safety, performance, and electromagnetic compatibility (increased emission and decreased immunity).

Care should be taken if the on-body injector for Neulasta is used adjacent to other electrical equipment; if adjacent use is inevitable, the on-body injector for Neulasta should be observed to verify normal operation in this setting.

**Electromagnetic Emissions**

The on-body injector for Neulasta is intended for use in the electromagnetic environment specified below. The user of the on-body injector for Neulasta should ensure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Emissions</th>
<th>Compliance according to</th>
<th>Electromagnetic environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Emissions (CISPR 11)</td>
<td>Group 1</td>
<td>The on-body injector for Neulasta uses RF energy only for its internal function. Therefore, its RF emissions are...</td>
</tr>
</tbody>
</table>
very low and are not likely to cause any interference in nearby equipment.

<table>
<thead>
<tr>
<th>CISPR B Emissions Classification</th>
<th>Class B</th>
</tr>
</thead>
</table>

### Electromagnetic Immunity
The on-body injector for Neulasta is intended for use in the electromagnetic environment specified below. The user of this equipment should ensure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity Test</th>
<th>IEC 60601 Test Level</th>
<th>Compliance Level</th>
<th>Electromagnetic Environment-Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESD</td>
<td>±6 kV Contact</td>
<td>±6 kV Contact</td>
<td>Floors should be wood, concrete or ceramic tile. If floors are synthetic, the r/h should be at least 30%.</td>
</tr>
<tr>
<td></td>
<td>±8 kV Air</td>
<td>±8 kV Air</td>
<td></td>
</tr>
<tr>
<td>Power Frequency 50/60 Hz</td>
<td>3 A/m</td>
<td>3 A/m</td>
<td>Power frequency magnetic fields should be that of typical commercial or hospital environment.</td>
</tr>
<tr>
<td>Magnetic Field IEC 61000-4-8</td>
<td>3 A/m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Radiated RF Fields 61000-4-3   | 3 V/m                | (E1)=3 V/m       | Portable and mobile communications equipment should be separated from the on-body injector for Neulasta by no less than the distances calculated/listed below:  
D=(3.5/V1)(√P)150 kHz to 80 MHz  
D=(3.5/E1)(√P)80 to 800 MHz  
D=(7/E1)(√P)800 MHz to 2.5 GHz  
Where P is the max power in watts and D is the recommended separation distance in meters. Field strengths from fixed transmitters, as determined by an electromagnetic site survey, should be less than the compliance levels (V1 and E1). Interference may occur in the vicinity of equipment containing a transmitter. |
|                                | 80 MHz to 2.5 GHz     |                  |                                     |

### Recommended separation distances between portable and mobile RF communications equipment and the on-body injector for Neulasta
You can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the on-body injector for Neulasta, as recommended below, according to the maximum power of the communication equipment.

<table>
<thead>
<tr>
<th>Rated maximum output power of</th>
<th>Separation distance according to frequency of transmitter, in meters</th>
</tr>
</thead>
</table>
transmitter, in watts

<table>
<thead>
<tr>
<th></th>
<th>150 kHz to 80 MHz D=(3.5/V1)(√P)</th>
<th>80 MHz to 800 MHz D=(3.5/E1)(√P)</th>
<th>800 MHz to 2.5 GHz D=(7/E1)(√P)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01</td>
<td>0.11667</td>
<td>0.11667</td>
<td>0.23333</td>
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<tr>
<td>0.1</td>
<td>0.36894</td>
<td>0.36894</td>
<td>0.73785</td>
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<tr>
<td>1</td>
<td>1.1667</td>
<td>1.1667</td>
<td>2.3333</td>
</tr>
<tr>
<td>10</td>
<td>3.6894</td>
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<td>7.3785</td>
</tr>
<tr>
<td>100</td>
<td>11.667</td>
<td>11.667</td>
<td>23.333</td>
</tr>
</tbody>
</table>

{SIDE 1 Information}

Patient Instructions for Use On-body Injector for Neulasta Description

The on-body injector for Neulasta is intended for delivery of Neulasta. The on-body injector is small, for one-time use, lightweight, battery-powered, and waterproof up to 8 feet for 1 hour. Your healthcare provider will use a prefilled syringe with Neulasta to fill the on-body injector prior to applying it. The prefilled syringe with Neulasta and the on-body injector are provided to your healthcare provider as part of Neulasta Onpro® kit. The on-body injector is applied directly to your skin using a self-adhesive backing. The on-body injector informs you of its status with sounds and lights.

The on-body injector contains electronic components as well as: a plastic housing, acrylic adhesive, batteries, a cannula introducer (needle) and a cannula. The on-body injector is approximately: 2.4 in long, 1.6 in wide, 0.7 in height (62 mm long, 41 mm wide, 17 mm height).

Warnings

Before you receive Neulasta, tell your healthcare provider if you:

- Have sickle cell trait or sickle cell disease.
- Have problems with your kidneys.
- Have any other medical problems.
- Are pregnant or plan to become pregnant. It is not known if Neulasta may harm your unborn baby.
- Are breastfeeding or plan to breastfeed. It is not known if Neulasta passes into your breastmilk.

Do not take Neulasta if you have had a serious allergic reaction to pegfilgrastim (Neulasta®) or to filgrastim (Neupogen®).

Tell your healthcare provider if you are allergic to latex. A prefilled syringe is used to fill the on-body injector by your healthcare provider prior to applying the on-body injector. The prefilled syringe gray needle cap contains dry natural rubber, which is derived from latex. Latex may be transferred to your skin.

Tell your healthcare provider if you have had severe skin reactions to acrylic adhesives.

The on-body injector is for adult patients only.

Avoid activities and places that may interfere with monitoring during the dosing of Neulasta administered by the on-body injector. For example, avoid traveling, driving, or operating heavy machinery during hours 26-29 following application of the on-body injector for Neulasta (this includes the 45-minute dose delivery period plus an hour post-delivery).

If you must travel by airplane before the approximately 45-minute dose delivery period with the on-body injector, avoid airport X-ray scans. Request a manual pat down instead. Use care during a manual pat down to help prevent the on-body injector from being accidentally removed. For more information go to:


If you have an allergic reaction during the delivery of Neulasta, remove the on-body injector by
grabbing the edge of the adhesive pad and peeling off the on-body injector. Get emergency medical help right away.

Call your healthcare provider immediately if you have severe pain or skin discomfort around your on-body injector.

Call your healthcare provider right away if you have pain in your left upper stomach area or left shoulder area. This pain could mean your spleen is enlarged or ruptured.

Call your healthcare provider or get emergency medical help right away if you get any of these symptoms of acute respiratory distress syndrome (ARDS): fever, shortness of breath, trouble breathing, or a fast rate of breathing.

Call your healthcare provider right away if you experience any of these symptoms of kidney injury (glomerulonephritis): puffiness in your face or ankles, blood in your urine or brown colored urine or you notice you urinate less than usual.

Keep children away from the used on-body injector.

You should only receive a dose of Neulasta on the day your healthcare provider tells you.

You should not receive your dose of Neulasta any sooner than 24 hours after you finish receiving your chemotherapy. The on-body injector for Neulasta is programmed to deliver your dose about 27 hours after your healthcare provider places the on-body injector on your skin.

**Do not** expose the on-body injector to the following because the on-body injector may be damaged and you could be injured:
- Diagnostic imaging (e.g., CT Scan, MRI, Ultrasound, X-ray)
- Radiation treatment
- Oxygen rich environments, such as hyperbaric chambers

**Do not** use bath tubs, hot tubs, whirlpools, or saunas while wearing the on-body injector. This may affect your medicine.

**Do not** expose the on-body injector to direct sunlight. If the on-body injector is exposed to direct sunlight for more than 1 hour, it may affect your medicine. Wear the on-body injector under clothing.

**Do not** sleep on the on-body injector or apply pressure during wear, especially during dose delivery. This may affect the on-body injector performance.

**Do not** peel off or disturb the on-body injector’s adhesive before your full dose is complete. This may result in a missed or incomplete dose of Neulasta.

**Precautions**

**Environmental:**

Keep the on-body injector dry for the last 3 hours prior to the dose delivery start.

Only expose the on-body injector to temperatures between 41°F and 104°F (5°C - 40°C).

Keep the on-body injector at least 4 inches away from electrical equipment such as cell phones, cordless telephones, microwaves and other common appliances. Failure to keep the on-body injector at least this recommended distance may interfere with operation and can lead to a missed or incomplete dose of Neulasta.

**Activity Related:**

Avoid getting body lotions, creams, oils or cleaning agents near the on-body injector as these products may loosen the adhesive.

Be careful not to bump the on-body injector or knock the on-body injector off your body.

**Biohazard:**
Properly dispose of the on-body injector:
- The on-body injector contains batteries, electronics, and a needle. The on-body injector should be placed in a sharps disposal container, with an appropriate sized opening, regardless of whether or not the needle is exposed. Follow instructions provided by your healthcare provider or by state or local laws.
- To participate in Amgen’s voluntary disposal program, please call 1-844-MYNEULASTA (1-844-696-3852) or visit www.neulasta.com to enroll.
- For more information about safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to FDA’s website at: http://www.fda.gov/safesharpsdisposal.

Risks
You can avoid most risks related to using the on-body injector for Neulasta by following the Patient Instructions for Use. Immediately call your healthcare provider if any of the following occur:
- The adhesive becomes noticeably wet (saturated) with fluid, or you see dripping
- If the on-body injector fill indicator is not at the empty position after on-body injector removal (you should see a black line next to the EMPTY indicator)
- The on-body injector comes off from the skin before or during a dose delivery (Do not reapply it)
- Status light is flashing red
- Allergic reaction
- Persistent or worsening redness or tenderness at the application site (may be a sign of infection)
- Severe pain or skin discomfort around your on-body injector
- Any concern about your medication
- If the needle is exposed after on-body injector removal

{SIDE 2 Information}

On-body Injector for Neulasta® (nu-las-tah) (pegfilgrastim) Injection
Patient Instructions for Use

Dose Delivery Information
Your on-body injector was applied:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>AM / PM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Your dose delivery will start around:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>AM / PM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Name of Healthcare Provider:

___________________________________________________________________

Last, First
Healthcare Provider contact number:

___________________________________________________________________

On-body injector lot number:

___________________________________________________________________

Important Information
- This on-body injector delivers Neulasta with an under-the-skin (subcutaneous) injection. See Patient Information for medicine information.
- If you have concerns about your medication, call your healthcare provider immediately. Serious
allergic reactions can happen with Neulasta. Ask your caregiver to be nearby for the first use. Plan to be in a place where you or your caregiver can appropriately monitor the on-body injector for Neulasta during the approximately 45-minute Neulasta delivery and for an hour after the delivery.

- Avoid activities and places that may interfere with monitoring during the dosing of Neulasta administered by the on-body injector (hours 26-29).
- If you have an allergic reaction during the delivery of Neulasta, remove the on-body injector by grabbing the edge of the adhesive pad and peeling off the on-body injector. Get emergency medical help right away.
- The on-body injector should be applied to intact, non-irritated skin on the stomach area (abdomen) or back of the arm. The back of the arm may only be used if there is a caregiver available to monitor the status of the on-body injector.
- Call your healthcare provider immediately if you have severe pain or skin discomfort around your on-body injector.
- Be careful not to bump the on-body injector or knock the on-body injector off your body.
- The on-body injector has a self-adhesive backing to attach it to the skin, do not use additional materials to hold it in place as this could dislodge the cannula and lead to a missed or incomplete dose of Neulasta.
- If the on-body injector at any time comes away from your skin before your full dose delivery, do not reapply it. Call your healthcare provider immediately as you may need a replacement dose.
- Avoid getting body lotions, creams, oils or cleaning agents near the on-body injector as these products may loosen the adhesive.
- Keep the on-body injector dry for the last 3 hours prior to the dose delivery start.
- Only expose the on-body injector to temperatures between 41°F and 104°F (5°C and 40°C).
- After on-body injector removal, properly dispose of it in a sharps disposal container as instructed by your healthcare provider or by state or local laws.
- Keep the on-body injector at least 4 inches away from electrical equipment such as cell phones, cordless telephones, microwaves and other common appliances. Failure to keep the on-body injector at least this recommended distance may interfere with operation and can lead to a missed or incomplete dose of Neulasta.
- Do not use bath tubs, hot tubs, whirlpools, or saunas while wearing the on-body injector. This may affect your medicine.
- Do not expose the on-body injector to direct sunlight. If the on-body injector is exposed to direct sunlight for more than 1 hour, it may affect your medicine. Wear the on-body injector under clothing.
- Do not sleep on the on-body injector or apply pressure during wear, especially during dose delivery. This may affect on-body injector performance.
- Do not peel off or disturb the on-body injector adhesive before your full dose is complete. This may result in a missed or incomplete dose of Neulasta.

A healthcare provider who is familiar with Neulasta should answer your questions. For general questions or support call 1-844-MYNEULASTA (1-844-696-3852) or visit www.neulasta.com.
Guide to Parts for On-body Injector for Neulasta

The on-body injector is working properly.

If at any time you hear beeping, check the status light. If it is flashing red, call your healthcare provider immediately, as you may need a replacement dose.

Fill indicator
After your dose delivery is complete, check to see if the black line on your on-body injector fill indicator is at empty.

On-body Injector Placement
Step 1: Monitor On-body Injector

A  For the next 27 hours, occasionally check the status light for at least 10 seconds. If the status light is flashing green, it is okay.

- If the on-body injector for Neulasta was placed on the back of your arm, a caregiver must be available to monitor the status of the on-body injector.
- Be careful not to bump the on-body injector, or knock the on-body injector off your body.
- If at any time you hear beeping, check the status light. If it is flashing red, call your healthcare provider immediately, as you may need a replacement dose.

B  After about 27 hours, your on-body injector will produce a series of beeps to let you know your dose delivery is about to begin.

**Do not remove the on-body injector at this time.**

- Dose delivery will start and take about 45-minutes to complete. The on-body injector will flash a fast green light.

- If at any time you hear beeping, check the status light. If it is flashing red, call your healthcare provider immediately, as you may need a replacement dose.
Step 2: Monitor Dose Delivery

For the next 45-minutes, monitor your on-body injector frequently for leaks during dose delivery. If the on-body injector was placed on the back of your arm, a caregiver must be available to monitor your on-body injector.

If the adhesive becomes noticeably wet (saturated) with fluid, or you see dripping, call your healthcare provider immediately, as you may need a replacement dose.

A Your dose delivery will take around 45-minutes to complete.
- During this time, the on-body injector will flash a fast green light.
- You may hear a series of clicks. This is okay.
- When dose delivery is complete, a long beep will sound and the status light will be solid green.

Step 3: Remove On-body Injector When Dose Delivery Is Complete

A After the beep, check the color of the status light.
Check to see if the status light is SOLID GREEN or has switched off. This means the dose is complete. If the dose is complete, go to the next step.

If you see the status light is flashing red, your on-body injector is not functioning properly. Remember, any time you see a status light flashing red, call your healthcare provider immediately, as you may need a replacement dose.

**B** Grab the edge of the adhesive pad. Slowly peel off the on-body injector.
- If medicine has leaked or the adhesive is noticeably wet (saturated), call your healthcare provider immediately, as you may not have received your full dose and you may need a replacement dose.
- Remove any extra adhesive using soap and water.

- Do not grasp the on-body injector itself to try to pull it off of your body.

---

**Step 4: Finish**

Stop

Check to see if your on-body injector is empty.

- You should see a black line next to the EMPTY indicator. If the on-body injector is not empty, call your healthcare provider immediately, as you may need a replacement dose.
Check your status light again. Watch for at least 10 seconds. If the status light is solid green or it has switched off, it is okay.

If you hear beeping, or when you check the status light and it is flashing red, call your healthcare provider immediately.

After on-body injector removal, place the on-body injector in a sharps disposal container whether the needle is exposed or not. If the needle is exposed, call your healthcare provider immediately.

A **Record the end state of your on-body injector.**

- Mark the box of the description that represents your on-body injector after it has been used.

- Status light is solid green or the status light has switched off. This means that the delivery is complete.
- On-body injector leaked, call your healthcare provider immediately, as you may need a replacement dose.
- Status light is red, call your healthcare provider immediately, as you may need a replacement dose.

B **Properly dispose of the on-body injector.**

- The on-body injector contains batteries, electronics, and a needle. Dispose of it in a sharps disposal container as instructed by your healthcare provider or by state or local laws.
- To participate in Amgen’s voluntary disposal program, please call 1-844-MYNEULASTA (1-844-696-3852) or visit www.neulasta.com to enroll. For more information about safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to FDA’s website at: http://www.fda.gov/safesharpsdisposal.
- Keep children away from the used on-body injector.

**Attention!**

What to do if you hear beeping or when you look at the status light and it is flashing red.

- If the status light is flashing red, you may not have received your full dose and may need a replacement dose. Call your healthcare provider immediately.
If the adhesive becomes saturated with fluid, or you see dripping, your medicine may have leaked out. Even with a leak, the status light may remain green and the fill indicator may be at EMPTY. Call your healthcare provider immediately, as you may not have received your full dose and may need a replacement dose.

**Note:** It is normal to see a few drops of fluid at the application site, but not normal to see a noticeably wet (saturated) adhesive.

**What do I do if the on-body injector comes off before the full dose is delivered?**

Call your healthcare provider immediately if the on-body injector at any time comes away from your skin before your full dose delivery, as you may need a replacement dose. **Do not** reapply it.
What if there is blood at my application site after the on-body injector has been removed?
If there is blood, press a clean cotton ball or gauze pad on the application site. Apply an adhesive bandage if needed.

What if my application site is red or tender after on-body injector removal?
Call your healthcare provider immediately if you experience persistent or worsening redness or tenderness at the application site, as this can be a sign of infection.

Neulasta® (pegfilgrastim)

Manufactured by:
Amgen Inc.
One Amgen Center Drive
Thousand Oaks, California 91320-1799
US License No. 1080
Patent: http://pat.amgen.com/onpro/

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www.neulasta.com
1-844-MYNEULASTA (1-844-696-3852)
Issued: 06/2018
v7

Instructions for Use
Neulasta (nu-las-tah)
(pegfilgrastim)
Injection, for subcutaneous use
Single-Dose Prefilled Syringe

Guide to parts

<table>
<thead>
<tr>
<th>Before use</th>
<th>After use</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Important: The needle is covered by the gray needle cap before use.

Important
Read the Patient Information for important information you need to know about Neulasta before using these Instructions for Use.

Before you use a Neulasta prefilled syringe, read this important information.

Storing the prefilled syringe
- Store Neulasta in the refrigerator between 36°F to 46°F (2°C to 8°C).
- Do not freeze.
- Keep the prefilled syringe in the original carton to protect from light or physical damage.
- Take the prefilled syringe out of the refrigerator 30 minutes before use and allow it to reach room temperature before preparing an injection.
- Throw away (dispose of) any Neulasta that has been left at room temperature, 68°F to 77°F (20°C to 25°C), for more than 48 hours.
- Keep the Neulasta prefilled syringe out of the reach of children.

Using the prefilled syringe
- It is important that you do not try to give the injection unless you or your caregiver has received training from your healthcare provider.
- Make sure the name Neulasta appears on the carton and prefilled syringe label.
- Check the carton and prefilled syringe label to make sure the dose strength is 6 mg.
• You should not inject a dose of Neulasta to children weighing less than 45 kg from a Neulasta prefilled syringe. A dose less than 0.6 mL (6 mg) cannot be accurately measured using the Neulasta prefilled syringe.
• **Do not** use a prefilled syringe after the expiration date on the label.
• **Do not** shake the prefilled syringe.
• **Do not** remove the gray needle cap from the prefilled syringe until you are ready to inject.
• **Do not** use the prefilled syringe if the carton is open or damaged.
• **Do not** use a prefilled syringe if it has been dropped on a hard surface. The prefilled syringe may be broken even if you cannot see the break. Use a new prefilled syringe.
• **Do not** slide the blue safety guard over the needle before you give the injection. This will “activate” or lock the blue safety guard. Use another prefilled syringe that has not been activated and is ready to use.
• The gray needle cap on the prefilled syringe contains dry natural rubber (made from latex). **Tell your healthcare provider if you are allergic to latex. You should not give Neulasta using the prefilled syringe if you have latex allergies.**

Call your healthcare provider if you have any questions.

**Step 1: Prepare**

A Remove the prefilled syringe carton from the refrigerator.

Put the original carton with any unused prefilled syringes back in the refrigerator.

Remove the syringe tray from the carton. On a clean, well-lit surface, place the syringe tray at room temperature for **30 minutes** before you give an injection.
• **Do not** use the prefilled syringe if the carton is damaged.
• **Do not** try to warm the prefilled syringe by using a heat source such as hot water or microwave.
• **Do not** leave the prefilled syringe in direct sunlight.
• **Do not** shake the prefilled syringe.

Open the tray by peeling away the cover. Grab the blue safety guard to remove the prefilled syringe from the tray.

For safety reasons:
• **Do not** grab the plunger rod.
• **Do not** grab the gray needle cap.

B Inspect the medicine and prefilled syringe.
Make sure the medicine in the prefilled syringe is clear and colorless.

- Do not use the prefilled syringe if:
  - The medicine is cloudy or discolored or contains flakes or particles.
  - Any part appears cracked or broken.
  - The prefilled syringe has been dropped.
  - The gray needle cap is missing or not securely attached.
  - The expiration date printed on the label has passed.

In all cases, use a new prefilled syringe and call your healthcare provider.

C Gather all materials needed for the injection.

Wash your hands thoroughly with soap and water.

On a clean, well-lit work surface, place the:

- Prefilled syringe
- Alcohol wipe
- Cotton ball or gauze pad
- Adhesive bandage
- Sharps disposal container

Step 2: Get ready

D Prepare and clean the injection site(s).
You can use:
- Thigh
- Stomach area (abdomen), except for a 2-inch area right around the navel (belly button)
- Upper outer area of the buttocks (only if someone else is giving you the injection)
- Outer area of upper arm (only if someone else is giving you the injection)

Clean the injection site with an alcohol wipe. Let the skin dry.
- **Do not** touch this area again before injecting.
- If you want to use the same injection site, make sure it is not the same spot on the injection site you used for a previous injection.
- **Do not** inject into areas where the skin is tender, bruised, red, or hard. Avoid injecting into areas with scars or stretch marks.

**E** Hold the prefilled syringe by the syringe barrel. Carefully pull the gray needle cap straight off and away from the body.

- **Do not** remove the gray needle cap from the prefilled syringe until you are ready to inject.
- **Do not** twist or bend the gray needle cap.
- **Do not** hold the prefilled syringe by the plunger rod.
- **Do not** put the gray needle cap back onto the prefilled syringe.
Important: Throw the gray needle cap into the sharps disposal container.

Step 3: Subcutaneous (under the skin) injection

F Pinch the injection site to create a firm surface.

Important: Keep skin pinched while injecting.

G Hold the pinch. Insert the needle into the skin at 45 to 90 degrees.

H Using slow and constant pressure, push the plunger rod until it reaches the bottom.

When done, gently pull the syringe off of the skin.

Important: When you remove the syringe, if it looks like the medicine is still in the syringe barrel, this means you have not received a full dose. Call your healthcare provider right away.

Step 4: Finish

For your safety, pull the blue safety guard until it clicks and covers the needle.
Once extended, the blue safety guard will lock into position and will not slide back over the needle. Keep your hands away from the needle at all times.

J Discard (throw away) the used prefilled syringe.

Put the used prefilled syringe in a FDA-cleared sharps disposal container right away after use. Do not throw away (dispose of) the syringe in the household trash.

If you do not have a FDA-cleared sharps disposal container, you may use a household container that is:
- made of a heavy-duty plastic,
- can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,
- upright and stable during use,
- leak-resistant, and
- properly labeled to warn of hazardous waste inside the container.

When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used needles and syringes. For more information about safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to the FDA’s website at: http://www.fda.gov/safesharpsdisposal

- Do not reuse the prefilled syringe.
- Do not recycle the prefilled syringe or sharps disposal container or throw them into household trash.

Important: Always keep the sharps disposal container out of the reach of children.

K Examine the injection site.
If there is blood, press a cotton ball or gauze pad on the injection site. **Do not** rub the injection site. Apply an adhesive bandage if needed.

This Instructions for Use has been approved by the U.S. Food and Drug Administration.

**Manufactured by:**

Amgen Inc.
One Amgen Center Drive
Thousand Oaks, California 91320-1799
U.S. License No. 1080

Patent: http://pat.amgen.com/onpro/

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1xxxxxx
Revised: 12/2016 v2

Principal Display Panel
NDC 55513-190-01
1 - 0.6 mL Single Dose Prefilled Syringe
AMGEN®
Neulasta®
(pegfilgrastim) injection
Pegylated Recombinant Methionyl Human Granulocyte Colony-Stimulating Factor
(PEG-r-metHuG-CSF) derived from E Coli
6 mg
6 mg in 0.6 mL Single Dose Prefilled Syringe
For Subcutaneous Use Only
This Product Contains Dry Natural Rubber
Sterile Solution – No Preservative
Rx Only
Manufactured by Amgen Inc.
Thousand Oaks, CA 91320-1799 U.S.A.
U.S. License No. 1080
Principal Display Panel
NDC 55513-192-01
1 - Single Dose Neulasta Prefilled Syringe
1 - Sterile On-body Injector for Neulasta
AMGEN®
Neulasta® Onpro® kit
(pegfilgrastim) injection
Pegylated Recombinant Methionyl Human Granulocyte Colony-Stimulating Factor (PEG-r-metHuG-CSF) derived from E. Coli
6 mg/0.6 mL*
6 mg/0.6 mL*
* Prefilled syringe contains 0.64 mL to deliver
6 mg/0.6 mL when used with on-body injector
For Subcutaneous Use Only
Carton Contents (intended to be dispensed as a unit):
- 1 sterile On-body Injector for Neulasta
- 1 Neulasta prefilled syringe labeled for use with on-body injector only
- 1 patient instructions for use
- 1 healthcare provider instructions for use, 1 package insert
- 1 reference guide
This Product Contains Dry Natural Rubber
Store at 2° to 8°C (36° to 46°F).
Do Not Freeze or Shake.
Keep in Carton to Protect from Light.
See package insert for full prescribing information and Instructions for Use
Rx Only
NEULASTA®
(pegfilgrastim) injection
Onpro® kit

Pegylated Recombinant Methionyl Human Granulocyte Colony-Stimulating Factor (PEG-r-methHuG-CSF) derived from E. Coli

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Rx Only

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### Product Information

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**Part 1 of 1**

**NEULASTA**
pegfilgrastim injection

**Product Information**

| Route of Administration | SUBCUTANEOUS |

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**NEULASTA**
pegfilgrastim injection
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### Inactive Ingredients

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### Labeler

- Amgen Inc (039976196)

### Establishment

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Revised: 6/2018