

Open Size : 390(W) x 659(H) mm ; Folded Size : 98(W) x 40(H) mm ; PAPER : 40gsm ITC Paper **BOOKLET TO BE SEALED WITH SELF ADHESIVE TAPE** Pharmacode Size: 10x10mm SAP CODE : 650006090



Peafilarastim ous injection (uncorrected data for potency

Geometric Mean Arithmetic Mean (CV %)			
eference² = 203	% Ratio of Geometric Means	90% Confidence Interval ³	
41.6 119 (76.01)	105.6%	98.1%-113.7%	
33.6 164 (74.47)	104.4%		
4.33 6.43 (72.05)	107.2%		
.0188 i3.82)			
5.57 (5.95)			
1.57 32.79)			

tatistical analysis based on an analysis of variance (ANOVA) model performed on the log-transformed parameters of AUCT, AUCI, and Cmax and the non-log ansformed parameters of λ , t1/2, and tmax, with treatment, sequence, and period as fixed effects, and subject within sequence as a random effect

Table 3: Summary of PD Parameters for Absolute Neutrophil Count (ANC) (Baseline Corrected Absolute Neutrophil Count (ANC) Parameters in Healthy s Injection; Study MYL-1401H-1001)

thmetic Mean CV) = EU-Neulasta® 203	% Ratio of Geometric Means (A/B)*	95% Confidence Interval**
30 60 (29.05)	99.5%	96.4%-102.7%
66 48 (25.87)	99.6%	96.7%-102.7%
7 30 (39 04)		

Statistical analysis based on an analysis of variance (ANOVA) model performed on the log-transformed parameters of AUCT and Cmax and the non-log

itor Cell Antigen (CD34+) (E dy MYL-1401H-1001)	or Cell Antigen (CD34+) (Baseline-Corrected CD34+ Parameters in Healthy Adult Male MYL-1401H-1001)			
Geometric Mean Arithmetic Mean %CV) 3 = EU-Neulasta [®] N=203	% Ratio of Geometric Means (A/B)*	95% Confidence Interval**		
1658 2250 (79.73)	99.0%	93.6%-104.8		
17.50				

99.4% 23.21 (77.01) 108.5 (20.08)

Study MYL-1401H-1002 was a single center, randomized, open-label, parallel trial to compare immunogenicity, safety, and tolerability of Fulphila and the is (sc) injections (6 mg each) in a total of 50 healthy subjects (n=25 in each treatment group).

at follow-up approximately 28 days after dosing in the last period. The number of subjects positive for ADA at any time point was 8/25 (32%) in each of the two treatment groups. The titer of ADA was low (up to 30) in patients who received either Fulphila or the US-Neulasta. Treatment-emergent neutralizing antibody was

nduced anti-drug antibodies (ADA) was 0.8% in the Fulphila group and 3% in the EU-Neulasta group. None of the positive sera was positive for neutralizing

Reduction in the duration of neutropenia and the incidence of febrile neutropenia in adult patients treated with cytotoxic chemotherapy for malignancy (with the

One 6 mg dose (a single pre-filled syringe) of Fulphila™ is recommended for each chemotherapy cycle, given at least 24 hours (not above 30°C) after cytotoxic

The safety and efficacy of Fulphila™ in children has not yet been established. Currently available data are described below but no recommendation on a posolog

Due to the potential sensitivity of rapidly dividing myeloid cells to cytotoxic chemotherapy, Pegfilgrastim should be administered at least 24 hours after administration of cytotoxic chemotherapy. In clinical trials, pegfilgrastim has been safely administered 14 days before chemotherapy. Concomitant use of egfligrastim with any chemotherapy agent has not been evaluated in patients. In animal models concomitant administration of pegfligrastim and 5-fluorourac

Specific interaction or metabolism studies have not been performed, however, clinical trials have not indicated an interaction of pegfiligrastim with any other



There are no or limited amount of data from the use of pegfilgrastim in pregnant women. Studies in animals have shown reproductive toxicity. Pegfilgrastim is not recommended during pregnancy and in women of childbearing potential unless clearly necessar Breast-feeding There is insufficient information on the excretion of Peqfilgrastim / metabolites in human milk, a risk to the newborns/infants cannot be excluded. Fulphila should not be administered to women who are breast-feeding

Effects on ability to drive and use machines Pegfilgrastim has no or negligible influence on the ability to drive and use machines.

Contraindications Hypersensitivity to the active substance or to any of the excipients

Special Warnings and Precautions for Use

Fulphila has been developed as a biosimilar product to reference product named Neulasta. Biosimilar product is similar but not identical to the reference product t is recommended to consult with healthcare practitioner on the risk of substitution of reference product with biosimilar produ Traceability

In order to improve the traceability of granulocyte-colony stimulating factors (G-CSFs), the trade name of the administered product should be clearly recorded in Limited clinical data suggest a comparable effect on time to recovery of severe neutropenia for pegfilgrastim to filgrastim in patients with de novo acute myeloid

leukaemia (AML). However, the long-term effects of Pegfilgrastim have not been established in AML; therefore, it should be used with caution in this patient population. Granulocyte-colony stimulating factor can promote growth of myeloid cells in vitro and similar effects may be seen on some non-myeloid cells in vitro. The safety and efficacy of Pegfilgrastim have not been investigated in patients with myelodysplastic syndrome, chronic myelogenous leukaemia, and in patients with secondary Acute Myeloid Leukaemia (AML); therefore, it should not be used in such patients. Particular care should be taken to distinguish the diagnosis of

blast transformation of chronic myeloid leukaemia from acute myeloid leukaemia. The safety and efficacy of Pegfilgrastim administration in de novo AML patients aged < 55 years with cytogenetics t(15;17) have not been established. The safety and efficacy of Pegfilgrastim have not been investigated in patients receiving high dose chemotherapy. This medicinal product should not be used to increase the dose of cytotoxic chemotherapy beyond established dosage regimens.

Pulmonary adverse events Pulmonary adverse reactions, in particular interstitial pneumonia, have been reported after G-CSF administration. Patients with a recent history of pulmonary

infiltrates or pneumonia may be at higher risk. The onset of pulmonary signs such as cough, fever, and dyspnoea in association with radiological signs of pulmonary infiltrates, and deterioration in pulmonary the object of pulmonary signs such as cough, never, and usprote in association with indexident and user object of pulmonary initiates, and deterioration in pulmonary function along with increased neutrophil count may be preliminary signs of Acute Respiratory Distress Syndrome (ARDS). In such circumstances Fulphila™ should be discontinued at the discretion of the physician and the appropriate treatment given.

Glomerulonephritis Glomerulonephritis has been reported in patients receiving filgrastim and pegfilgrastim. Generally, events of glomerulonephritis resolved after dose reduction or withdrawal of filgrastim and pegfilgrastim. Urinalysis monitoring is recommended Capillary leak syndrome

Capillary leak syndrome has been reported after granulocyte-colony stimulating factor administration and is characterised by hypotension, hypoalbuminaemia oedema and hemoconcentration. 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. Splenomegaly and splenic rupture

Generally asymptomatic cases of splenomegaly and cases of splenic rupture, including some fatal cases, have been reported following admini pegfilgrastim. Therefore, spleen size should be carefully monitored (e.g. clinical examination, ultrasound). A diagnosis of splenic rupture should be considered in patients reporting left upper abdominal pain or shoulder tip pain. Thrombocytopenia and anaemi

Treatment with Pegfilgrastim alone does not preclude thrombocytopenia and anaemia because full dose myelosuppressive chemotherapy is maintained on the prescribed schedule. Regular monitoring of platelet count and haematocrit is recommended. Special care should be taken when administering single or mbination chemotherapeutic agents which are known to cause severe thrombocytopenia

Sickle cell anaemia Sickle cell crises have been associated with the use of pegfilgrastim in patients with sickle cell trait or sickle cell disease. Therefore, physicians should use caution when prescribing Pegfilgrastim in patients with sickle cell trait or sickle cell disease, should monitor appropriate clinical parameters and laboratory status and be attentive to the possible association of this medicine with splenic enlargement and vaso-occlusive crisis.

Leukocytosis White blood cell (WBC) counts of 100 x 10% L or greater have been observed in less than 1 % of patients receiving Pegfilgrastim. No adverse events directly attributable to this degree of leukocytosis have been reported. Such elevation in white blood cells is transient, typically seen 24 to 48 hours after administration and is consistent with the pharmacodynamic effects of this medicine. Consistent with the clinical effects and the potential for leukocytosis, a WBC count should be performed at regular intervals during therapy. If leukocyte counts exceed 50 x 10°/L after the expected nadir, this medicine should be discontinued immediately Hypersensitivity

Hypersensitivity, including anaphylactic reactions, occurring on initial or subsequent treatment have been reported in patients treated with Pegfilgrastim Permanently discontinue Peafilgrastim in patients with clinically significant hypersensitivity. Do not administer Peafilgrastim to patients with a history of ensitivity to pegfilgrastim or filgrastim. If a serious allergic reaction occurs, appropriate therapy should be administered, with close patient follow-up over several days. Immunogenicity

As with all therapeutic proteins, there is a potential for immunogenicity.

Healthy volunteer data indicate that Fulphila™ does not induce either early or late immune response and has a low immunogenic potent In patients with breast cancer, isolated and very small number of patients were positive for anti-drug antibodies during the treatment phase. As with the pretreatment samples, the titers were very low and none of the antibody samples (pretreatment and on treatment) were neutralising These data are consistent with reported experience with pegfilgrastim which suggests a very low immunogenic potential.

Aortitis Aortitis has been reported after G-CSF administration in healthy subjects and in cancer patients. The symptoms experienced included fever, abdominal pain malaise, back pain and increased inflammatory markers (e.g. C-reactive protein and white blood cell count). In most cases aortitis was diagnosed by CT scan and generally resolved after withdrawal of G-CSF.

Other warnings The safety and efficacy of FulphilaTM for the mobilisation of blood progenitor cells in patients or healthy donors has not been adequately evaluated. Increased haematopoietic activity of the bone marrow in response to growth factor therapy has been associated with transient positive bone imaging findings. This should be considered when interpreting bone-imaging results.

FulphilaTM contains sorbitol. Patients with hereditary fructose intolerance (HFI) must not be given this medicinal product unless strictly necessary. A detailed history with regard to HFI symptoms has to be taken of each patient prior to being given this medicinal produ

Fulphila™ contains less than 1 mmol (23 mg) sodium per 6 mg dose, that is to say essentially 'sodium-free'.

Undesirable Effects Summary of the safety profile

The most frequently reported adverse reactions were bone pain (very common [≥ 1/10]) and musculoskeletal pain (common [≥ 1/100 to < 1/10]). Bone pain was generally of mild to moderate severity, transient and could be controlled in most patients with standard analgesics Hypersensitivity-type reactions, including skin rash, urticaria, angioedema, dyspnoea, erythema, flushing, and hypotension occurred on initial or subsequen treatment with Peofilgrastim (uncommon [> 1/1.000 to < 1/100]). Serious allergic reactions, including anaphylaxis can occur in patients receiving peofilgrastim

Capillary Leak Syndrome, which can be life-threatening if treatment is delayed, has been reported as uncommon (≥ 1/1,000 to < 1/100) in cancer patients undergoing chemotherapy following administration of granulocyte colony-stimulating factors; see section "Description of selected adverse reactions" below. Splenomegaly, generally asymptomatic. is uncommon.

Splenic rupture including some fatal cases is uncommonly reported following administration of pegfilgrastim

Uncommon pulmonary adverse reactions including interstitial pneumonia, pulmonary oedema, pulmonary infiltrates and pulmonary fibrosis have been reported. Uncommonly, cases have resulted in respiratory failure or Acute Respiratory Distress Syndrome (ARDS), which may be fatal cases of sickle cell crises have been reported in patients with sickle cell trait or sickle cell dis

Tabulated List of adverse reactions The data in the table below describe adverse reactions reported from clinical trials and spontaneous reporting. Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

MedDRA system	Adverse reactions					
organ class	Very common (≥ 1/10)	Common (≥ 1/100 to < 1/10)	Uncommon (≥ 1/1,000 to < 1/100)	Rare (≥ 1/10,000 to < 1/1,000)	Very rare (< 1/ 10,000)	
Blood and lymphatic system disorders		Thrombocytopenia ¹ Leukocytosis ¹	Sickle cell crisis ² ; Splenomegaly ² ; Splenic rupture ²			
Immune system disorders			Hypersensitivity reactions; Anaphylaxis			
Metabolism and nutrition disorders			Elevations in uric acid			
Nervous system disorders	Headache ¹					
Vascular disorders			Capillary leak syndrome ¹	Aortitis		
Respiratory, thoracic and mediastinal disorders			Acute Respiratory Distress Syndrome ² ; Pulmonary adverse reactions (interstitial pneumonia, pulmonary ofedema, pulmonary infiltrates and pulmonary fibrosis) Haemoptysis	Pulmonary haemorrhage		
Gastrointestinal disorders	Nausea ¹					
Skin and subcutaneous tissue disorders			Sweet's syndrome (acute febrile dermatosis) ^{1,2} ; Cutaneous vasculitis ^{1,2}			

lusculoskeletal and one pair usculoskeletal pai nective tissue myalgia, arthralgia, ain in extremity back pain, musculo skeletal pain, neck Renal and urinary omerulonephritis² Injection site pain¹ Non-cardiac chest niection site reactions General disorders and nistrative site Elevations in lactate stigations dehvdrogenase and alkaline phosphata ransient elevations i FT's for ALT or AST

See section "Description of selected adverse reactions" below.

²This adverse reaction was identified through post-marketing surveillance but not observed in randomised, controll ategory was estimated from a statistica

calculation based upon 1576 patients receiving pegfilgrastim in nine randomized clinical trials.

Description of selected adverse reactions

Uncommon cases of Sweet's syndrome have been reported, although in some cases underlying haematological ma Incommon events of cutaneous vasculitis have been reported in patients treated with pegfilgrastim. The mechanisi pegfilgrastim is unknown

Injection site reactions, including injection site erythema (uncommon) as well as injection site pain (common) have

pegfilgrastim Common cases of leukocytosis (White Blood Count [WBC] > 100 x 10⁹/l) have been reported.

Reversible, mild to moderate elevations in uric acid and alkaline phosphatase, with no associated clinical effects, w evations in lactate dehydrogenase, with no associated clinical effects, were uncommon in patients receiving pegf Nausea and headaches were very commonly observed in patients receiving chemotherapy. Uncommon elevations aminotransferase) or AST (aspartate aminotransferase), have been observed in patients after receiving pegfilgrastin

elevations are transient and return to baseline. Common cases of thrombocytopenia have been reported

Cases of capillary leak syndrome have been reported in the post marketing setting with granulocyte colony-stimula in patients with advanced malignant diseases, sepsis, taking multiple chemotherapy medicinal products or undergo Paediatric population

The experience in chlidren and adolescents is limited. A higher frequency of serious adverse reactions in younger c observed compared to older children aged 6-11 and 12-21 years respectively (80 % and 67 %) and adults. The mo

Reporting of suspected adverse reactions Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continue

Overdose

Single doses of 300 µg/kg have been administered subcutaneously to a limited number of healthy volur serious adverse reactions. The adverse events were similar to those in subjects receiving lower doses of Pegfilgras PHARMACEUTICAL PARTICULARS Active Ingredien Pegfilgrastim List of excipients D-Sorbito Polysorbate 20 Acetate* Sodium* Water for Injection *Glacial acetic acid is used as a buffer component along with sodium hydroxide for the preparation of sodium aceta Incompatibilities This medicinal product must not be mixed with other medicinal products, particularly with sodium chloride solutio Shelf Life Please refer to carton/label Storage and Precautions Store in a refrigerator (2°C – 8°C). Do not freeze. Accidental exposure to freezing temperatures for a single period of less than 24 hours does not adve Keep the container in the outer carton in order to protect from light. Fulphila may be exposed to room temperature (not above 30°C) for a maximum single period of up to 24 hours. Fu hours should be discarded Nature and Contents of Container Pre-filled syringe (Type I glass), with a bromobutyl rubber stopper and a stainless steel needle with or without an au Each pre-filled syringe contains 0.6 ml of solution for injection. Pack size of one pre-filled syringe, in blistered pack Special precautions for disposal and other handling Before administration, Fulphila™ solution should be inspected visually for particulate matter. Only a solution that is c Excessive shaking may aggregate pegfilgrastim, rendering it biologically inactive. The pre-filled syringe should be al

Any unused product or waste material should be disposed of in accordance with local requirements

MANUFACTURED BY

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To report adverse events and/or product complaints visit our website www.mylan.in or e-mail us at pharmacovigila or pharmacovigilance.mppl@mylan.in

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Note: Unless otherwise stated and claimed, the data related to the studies, tests, treatment and application conta

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		Splenic rupture ²		
		Hypersensitivity reactions; Anaphylaxis		
rs		Elevations in uric acid		
	Headache ¹			
rs		Capillary leak syndrome1	Aortitis	
acic		Acute Respiratory Distress Syndrome ² ; Pulmonary adverse reactions (interstitial pneumonia, pulmonary oedema, pulmonary infiltrates and pulmonary fibrosis) Haemoptysis	Pulmonary haemorrhage	
	Nausea ¹			
aneous		Sweet's syndrome (acute febrile dermatosis) ^{1,2} ; Cutaneous vasculitis ^{1,2}		

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alignancies may play a role		
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clear and colourless should be injected. llowed to reach room temperature before		
nce.india@mylan.in or contactmppl@mylan.com		
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III Mylan		
'NO.		
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