



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Granulocyte-Colony Stimulating Factor, pegylated, human recombinant (rHuGCSF-PEG)

**Catalog No:** 97555  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** CSF-3, MGI-1G, GM-CSF beta, Pluripoietin, Filgrastim, Lenograstim, G-CSF, MGC45931, GCSF

### Background

GCSF is a cytokine that controls the production, differentiation, and function of granulocytes. The active protein is found extracellularly. Three transcript variants encoding three different isoforms have been found for this gene. Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. This csf induces granulocytes.

### Description

Granulocyte Colony Stimulating Factor human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 175 amino acids and having a molecular mass of 18.8 kDa. Pegylated G-CSF is produced by attaching a 20 kDa methoxypolyethylene glycol propionaldehyde (mPEG-ALD) to the N-terminal amino acid of G-CSF giving a total molecular mass of 38.8 kDa. G-CSF is purified by proprietary chromatographic techniques.

### Physical Appearance

Colorless, clear and transparent solution.

### Formulation

G-CSF is supplied in solution (0.69 mg/ml) containing 10 mM Acetate Buffer (pH 4.0), and 0.004% Polysorbate 80.

### Stability

GCSF PEG should be stored refrigerated at 2° to 8°C. Vials should be kept in their packaging to protect from light until the time of use. Shaking and freezing should be avoided.

### Purity

Greater than 95.0% as determined by SEC-HPLC.

### Activity

The ED50, calculated by the dose-dependent proliferation of murine NFS-60 indicator cells is less than 0.1 ng/ml, corresponding to a specific activity of 10,000,000 IU/mg.

### Usage

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