

**Product:** Pegylated G-CSF, Human, Recombinant  
**Catalog #:** 11-PGCSF-H  
**Amount:** 5 µg

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**DESCRIPTION:** Recombinant Human PEG-G-CSF produced in E.coli is a single, non-glycosylated, polypeptide chain containing 175 amino acids and having a molecular mass of 18,800 daltons. rHuPEG-G-CSF is manufactured by attaching a 20,000 dalton methoxypolyethylene glycol propionaldehyde (mPEG-ALD) to the N-terminal amino acid of G-CSF.  
rHuPEG-G-CSF is purified by proprietary chromatographic techniques.  
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Thr-Pro-Leu-Gly.

**SOURCE:** *E.Coli* Expression System

**PURITY:** Greater than 95.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Anion-exchange FPLC.  
(c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.

**ENDOTOXIN:** < 0.1 ng/µg (IEU/µg) of rHuPEG-G-CSF

**DIMERS & AGREGATES:** < 1% as determined by silver-stained SDS-PAGE gel analysis

**FORM:** Purified

**PROTEIN CONTENT:** Protein quantitation was carried out by two independent methods:  
1. UV spectroscopy at 280 nm using the absorbency value of 0.815 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).  
2. Analysis by RP-HPLC, using a calibrated solution of PEG-G-CSF as a Reference Standard.

**STORAGE:** -20°C (aliquot), avoid repeated freeze and thaw cycles

**BIOLOGICAL ACTIVITY:** rHuPEG-G-CSF is fully biologically active when compared to standard  
The ED50, calculated by the dose-dependant proliferation of murine NFS-60 indicator cells (measured by <sup>3</sup>H-thymidine uptake) is < 0.1 ng/ml, corresponding to a Specific Activity of 1 x 10<sup>8</sup> IU/mg

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