



## Recombinant Human G-CSF

## Datasheet

**Catalog Number:** PR27066

**Product Type:** Recombinant Protein

**Source:** *E.coli*

**Description/Molecular Mass:** 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 KD. G-CSF is purified by proprietary chromatographic techniques.

**Amino Acid Sequence:** The sequence of the first five N-terminal amino acids was determined and was found to be Met-Thr-Pro-Leu-Gly.

**Protein Content:** G-CSF 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 standard solution of recombinant G-CSF as a Reference Standard.

**Biological Activity:** The ED<sub>50</sub> calculated by the dose-dependant proliferation of murine NFS-60 indicator cells (measured by <sup>3</sup>H-thymidine uptake) is less than 0.1 ng/ml, corresponding to a Specific Activity of 1 x 10<sup>8</sup> IU/mg.

**Purity:** Greater than 98.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

**Format:** G-CSF was lyophilized after extensive dialysis against 10mM sodium acetate buffer pH= 4. G-CSF was lyophilized after extensive dialysis against 10mM sodium acetate buffer pH= 4.

**Reconstitution:** It is recommended to reconstitute the lyophilized Granulocyte Colony Stimulating Factor in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Storage:** Lyophilized Granulocyte Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution G-CSF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).  
**Please avoid freeze-thaw cycles.**

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