

## Active Recombinant Human GCSF

**Cat. No.** GCSF-89H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human GCSF produced in CHO cells is a single, glycosylated, polypeptide chain containing 174 amino acids and having a molecular mass of approximately 18 kDa. G-CSF is purified by proprietary chromatographic techniques.                |
| <b>Species</b>          | Human   |
| <b>Source</b>           | CHO   |
| <b>Description</b>      | The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes. The active protein is found extracellularly. Alternatively spliced transcript variants have been described for this gene. |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder. G-CSF was lyophilized from a concentrated (1mg/ml) Phosphate- Buffered Saline, pH 7.4.  |
| <b>Bio-activity</b>     | The ED50, calculated by the dose-dependant proliferation of murine NFS-60 indicator cells (measured by 3H-thymidine uptake) is < 0.07 ng/ml, corresponding to a Specific Activity of 1.27 x 10 <sup>8</sup> IU/mg.                                    |
| <b>Molecular Mass</b>   | 18 kDa  |
| <b>AA Sequence</b>      | TPLGPASSLP QSFLKCLEQ VRKIQGDGAA LQEKLCATYK LCHPEELVLL<br>GHSLGIPWAP LSSCPSQALQ LAGCLSQLHS GLFLYQGLLQ ALEGISPELG<br>PTLDTLQLDV ADFATTIWQQ MEELGMAPAL QPTQGAMPAF ASAFQRRAGG   |

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VLVASHLQSF LEVSYRVLRH LAQP.

**Purity**

Greater than 97.0% as determined by RP-HPLC and SDS-PAGE.

**Stability**

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 prevent freeze-thaw cycles.

**Reconstitution**

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

## GENE INFORMATION

**Gene Name**

CSF3 colony stimulating factor 3 (granulocyte) [ Homo sapiens (human) ]

**Official Symbol**

CSF3

**Synonyms**

CSF3; GCSF; CSF3OS; C17orf33; colony stimulating factor 3 (granulocyte); granulocyte colony-stimulating factor; filgrastim; lenograstim; pluripoietin

**Gene ID**

1440

**mRNA Refseq**

NM\_000759

**Protein Refseq**

NP\_000750

**MIM**

138970

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|----------------------------|--|
| <b>UniProt ID</b>          | P09919   |
| <b>Chromosome Location</b> | 17q11.2-q12  |
| <b>Pathway</b>             | Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Jak-STAT signaling pathway |
| <b>Function</b>            | cytokine activity; enzyme binding; granulocyte colony-stimulating factor receptor binding      |

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