

## Product Information Sheet

### Recombinant Human G-CSF

**Catalog#** 300-23

**Source:** *E.coli*

**Description:** G-CSF is a hematopoietic growth factor that stimulates the development of committed progenitor cells to neutrophils and enhances the functional activities of the mature end-cell. It is produced in response to specific stimulation by a variety of cells including macrophages, fibroblasts, endothelial cells and bone marrow stroma. G-CSF is being used clinically to facilitate hematopoietic recovery after bone marrow transplantation. Human and murine G-CSF are cross-species reactive. Recombinant human G-CSF is an 18.7 kDa protein consisting of 174 amino acid residues.

**Synonyms:** Granulocyte Colony-Stimulating Factor, CSF-3, MGI-1G, GM-CSF $\beta$ , pluripoietin

**Sequence:** TPLGPASSLP QSFLKCLEQ VRKIQGDGAA LQEKLCATYK LCHPEELVLL GHSLGIPWAP LSSCPSQALQ LAGCLSQLHS  
GLFLYQGLLQ ALEGISPELG PTLDLQLDV ADFATTIWQQ MEELGMAPAL QPTQGAMPAF ASAFQRRAGG VLVASHLQSF LEVSYRVLRH LAQP

**Authenticity:** Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Purity:**  $\geq 98\%$  by SDS-PAGE gel and HPLC analyses.

**Endotoxin:** Endotoxin level is  $< 0.1$  ng/ $\mu$ g of protein ( $< 1$  EU/ $\mu$ g).

**Protein Content:** Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Biological activity:** Determined by its ability to stimulate the proliferation of mouse NFS-60 cells. The expected ED<sub>50</sub> is  $\leq 0.1$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^7$  units/mg.

For a list of references please visit our website at [www.peprotech.com](http://www.peprotech.com)

**Country of Origin:** USA

Lot-specific information is not available on Product Information Sheet.  
See Certificate of Analysis for details.

**Usage:** For Research Use Only. Not for use in diagnostic or therapeutic procedures.

Updated 07/15/2013

#### Storage/Stability:

Product Form	Temperature	Storage Time
Lyophilized	-20°C to -80°C	See expiration date
Lyophilized	4°C	6 months
Lyophilized	RT	1 month
Diluted as per CoA	-20°C to -80°C	12 months
Diluted as per CoA	2°C to 8°C	1 week
**Avoid repeated freeze-thaw cycles.		