



Recombinant Human G-CSF

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-029S
Size:	2 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	1440
Synonyms:	CSF3; GCSF; CSF3OS; C17orf33

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 mouse G-CSF are cross-species reactive. Recombinant human G-CSF is an 18.7 kDa protein consisting of 174 amino acid residues.

Sequence

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TPLGPASSLP QSFLLKCLEQ VRKIQGDGAA LQEKLKATYK  
LCHPEELVLL GHSLGIPWAP LSSCPSQALQ LAGCLSQLHS  
GLFLYQGLLQ ALEGISPELG PTLDTLQLDV ADFATTIWQQ  
MEELGMAPAL QPTQGAMPAF ASAFQRRAGG VLVASHLQSF  
LEVSYRVLRH LAQP
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Database References

Protein RefSeq:	NP_000750.1
Uniprot ID:	P09919
mRNA RefSeq:	NM_000759

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	174
MW:	18.7 kDa

Biological Activity: The ED50 as determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells is ≤ 0.1 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^7$ units/mg.



AVOID REPEATED FREEZE AND THAW CYCLES!