Active Recombinant Human GCSF

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	CHO
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. G-CSF was lyophilized from a concentrated (1mg/ml) Phosphate- Buffered Saline, pH 7.4.
Bio-activity	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 10^8 IU/mg.
Molecular Mass	18 kDa
AA Sequence	TPLGPASSLP QSFLLKCLEQ VRKIQGDGAA LQEKLCATYK LCHPEELVLL GHSLGIPWAP LSSCPSQALQ LAGCLSQLHS GLFLYQGLLQ ALEGISPELG PTLDTLQLDV ADFATTIWQQ MEELGMAPAL QPTQGAMPAF ASAFQRRAGG

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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 H2O not less than 100ɡ/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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UniProt ID	P09919
Chromosome Location	17q11.2-q12
Pathway	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Jak-STAT signaling pathway
Function	cytokine activity; enzyme binding; granulocyte colony-stimulating factor receptor binding

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