

Recombinant Human Granulocyte Colony Stimulating Factor

Cat. No. CSF3-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human G-CSF produced in <i>E. coli</i> is a single, non-glycosylated, polypeptide chain containing 175 amino acids and having a molecular mass of 18.8 kDa.
Species	Human
Source	E.coli
Description	Granulocyte colony-stimulating factor (G-CSF or GCSF) is a colony-stimulating factor hormone. It is a glycoprotein, growth factor or cytokine produced by a number of different tissues to stimulate the bone marrow to produce granulocytes and stem cells. G-CSF then stimulates the bone marrow to release them into the blood. It also stimulates the survival, proliferation, differentiation, and function of neutrophil precursors and mature neutrophils. G-CSF is also known as colony-stimulating factor 3 (CSF 3).
Purity	>95% by SDS-PAGE and SEC-HPLC.
Formulation	Lyophilized after extensive dialysis against 10mM sodium acetate buffer pH=4.
Specific Activity	The ED50, calculated by the dose-dependant proliferation of murine NFS-60 indicator cells is less than 0.1 ng/ml, corresponding to a Specific Activity of 6.0×10^7 IU/ mg.
Endotoxin	Less than 0.03ng/g (0.03IEU/g) determined by LAL test.

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Reconstitution	It is recommended to reconstitute the lyophilized rHuG-CSF in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Storage	Lyophilized rHuG-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuG-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). Aliquot to avoid repeated freeze-thaw cycles.
GENE INFORMATION	
Gene Name	CSF3
Synonyms	G-CSF; GCSF; MGC45931; colony stimulating factor 3 (granulocyte); colony stimulating factor 3; granulocyte colony stimulating factor; pluripoietin; filgrastim; lenograstim; Granulocyte colony-stimulating factor precursor; CSF3
Gene ID	1440
mRNA Refseq	NM_172219.1
Protein Refseq	NP_757373.1
MIM	138970
UniProt ID	P09919
Chromosome Location	17q11.2-q12
Pathway	Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT

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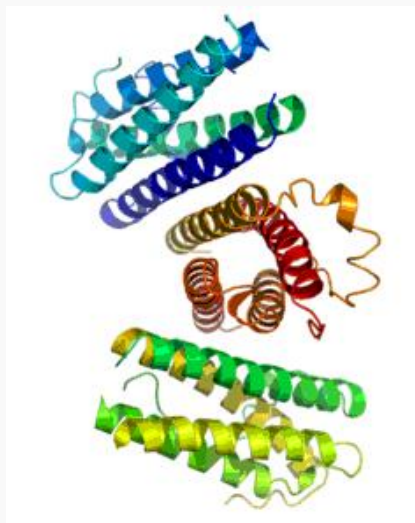
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signaling pathway

Function

Cytokine activity, Enzyme binding, Granulocyte colony-stimulating factor receptor binding, Interleukin-6 receptor binding

Crystal structure of 3 molecules of human G-CSF.
FromPDB1rhg



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