

Granulocyte-Colony Stimulating Factor Active Protein | G CSF active protein

Recombinant Human Granulocyte-Colony Stimulating Factor

CATALOG # AAA38114	HOST E Coli
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PRODUCT SYNONYMS

Granulocyte-Colony Stimulating Factor; Recombinant Human Granulocyte-Colony Stimulating Factor; G CSF Human; Granulocyte-Colony Stimulating Factor Human Recombinant; CSF-3; MGI-1G; GM-CSF beta; Pluripoietin; Filgrastim; Lenograstim; G-CSF; MGC45931; GCSF; G CSF active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	GCSF was lyophilized after extensive dialysis against 10mM sodium acetate buffer pH= 4. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	Thesequenc eofthefirs tfiveN-ter minalamino acidsofGCS Fwasdeterm inedandwas foundtobeM et-Thr-Pro -Leu-Gly
Sequence Length	207
Solubility	It is recommended to reconstitute the lyophilized GCSF in sterile 20mM AcOH not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Protein Content	GCSF quantitation was carried out by two independent methods:1. UV spectroscopy at 280 nm using the absorbency value of 0.815 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of GCSF as a Reference Standard.
Biological Activity	The ED50, calculated by the dose-dependant proliferation of murine NFS-60 indicator cells (measured by 3H-thymidine uptake) is < 0.1 ng/ml, corresponding to a Specific Activity of 100,000,000 IU/mg.
Preparation and Storage	Lyophilized GCSF although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution GCSF should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for G CSF active protein	Description: Granulocyte Colony Stimulating Factor Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 175 amino acids and having a molecular mass of 18.8 KD.GCSF is purified by proprietary chromatographic techniques. Introduction: GCSF is a cytokine that controls the production, differentiation, and function of granulocytes. The active protein is found extracellularly. Three transcript variants encoding three different isoforms have been found for the GCSF gene. Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. This csf induces granulocytes.
Product Categories/Family for G CSF active protein	Cytokines and Growth Factors; Growth Factors; Colony Stimulating Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503079
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NCBI GeneID	1440
NCBI Accession #	NP_000750.1
NCBI GenBank Nucleotide #	NM_000759.3
UniProt Accession #	P09919 ; A8MXR7
Molecular Weight	18,434 Da
NCBI Official Full Name	granulocyte colony-stimulating factor isoform a
NCBI Official Synonym Full Names	colony stimulating factor 3 (granulocyte)
NCBI Official Symbol	CSF3
NCBI Official Synonym Symbols	GCSF; CSF3OS; C17orf33
NCBI Protein Information	granulocyte colony-stimulating factor; filgrastim; granulocyte-colony stimulating factor; lenograstim; pluripoietin
UniProt Protein Name	Granulocyte colony-stimulating factor
UniProt Gene Name	CSF3
UniProt Synonym Gene Names	C17orf33; GCSF; G-CSF
UniProt Entry Name	CSF3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/e-coli-g-csf-active-protein/granulocyte-colony-stimulating-factor/38114>