

G-CSF active protein

G-CSF, 31-204 aa, Human, E Coli (Bioactivity Validated)

CATALOG # AAA48456	HOST E Coli	APPLICATIONS SDS-Page
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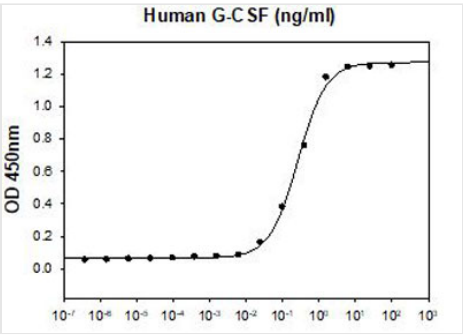
PRODUCT SYNONYMS

G-CSF; 31-204 aa; Human; E Coli (Bioactivity Validated); Granulocyte-colony stimulating factor; CSF3; GCSF; Pluripoietin; Filgrastim; Lenograstim; Granulocyte colony-stimulating factor; Granulocyte-colony stimulating factor Colony stimulating factor 3 (granulocyte); CSF 3; CSF beta; Csf; GCSA; Granulocyte colony stimulating factor; Macrophage granulocyte inducer 2; MGC45931; MGI 2; ; G-CSF active protein

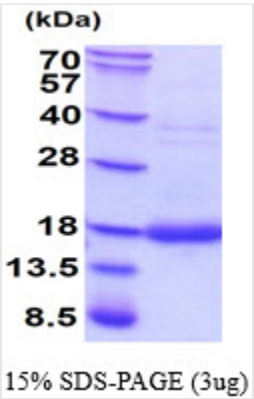
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In phosphate-buffered saline (PBS), pH7.4, 10% glycerol
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MTPLGPASSL PQSFLKCLE QVRKIQGDGA ALQEKLCATY KLCHPEELVL LGHSLGIPWA PLSSCPSQAL QLAGCLSQLH SGLFLYQGLL QALEGISPEL GPTLDTLQLD VADFATTIWQ QMEELGMAPA LQPTQGAMPA FASAFQRRAG GVLVASHLQS FLEVSRYVLR HLAQP
Sequence Length	204
Applicable Applications for G-CSF active protein	Bioactivity, SDS-PAGE
Domain	31-204aa
Endotoxin Level	< 1.0 EU per 1 ug of protein (determined by LAL method)
Biological Activity	Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is less than or equal to 0.3 ng/ml.
Tag	Non-Tagged
Preparation and Storage	Can be stored at +2C to 8°C for up to 1 week. For long term storage, aliquot and store at -20°C or -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



Application Data
Human G-CSF stimulates cell proliferation of the M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 range



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for G-CSF active protein	Human granulocyte colony-stimulating factor (hG-CSF) is one of the hematopoietic growth factors which plays an important role in stimulating proliferation, differentiation, and functional activation of blood cells. In addition to its effect on hematopoiesis, G-CSF also enhances neutrophil functions against bacteria, fungi, and tumor cells mediated by antibody-dependent cell-mediated cytotoxicity. Recombinant hG-CSF was expressed in E Coli and purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Product Categories/Family for G-CSF active protein	Hormones & Cytokines
References	Nomura H, et al. (1986) EMBO J, 5 (5): 871-6; Nagata, S., et al. (1986) Nature, 319 : 415-418; Demetri, G. D., et al. (1991) Blood, 78: 2791-2808 ; Hill, C. P., et al (1993) Proc. Natl. Acad. Sci. uSA, 90:5167-5171;

NCBI AND UNIPROT INFORMATION

NCBI GI #	27437049
NCBI GeneID	1440
NCBI Accession #	NP_757373
NCBI GenBank Nucleotide #	NM_172219.2
UniProt Accession #	P09919; A8MXR7
Molecular Weight	18.8kDa (175aa), confirmed by MALDI-TOF.
NCBI Official Full Name	granulocyte colony-stimulating factor isoform b
NCBI Official Synonym Full Names	colony stimulating factor 3
NCBI Official Symbol	CSF3
NCBI Official Synonym Symbols	GCSF; CSF3OS; C17orf33
NCBI Protein Information	granulocyte colony-stimulating factor
UniProt Protein Name	Granulocyte colony-stimulating factor
UniProt Gene Name	CSF3
UniProt Synonym Gene Names	C17orf33; GCSF; G-CSF

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.

