

Granulocyte Colony Stimulating Factor Active Protein | Csf3 active protein

Mouse Granulocyte Colony Stimulating Factor Recombinant

CATALOG #	HOST
AAA76390	E coli (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)

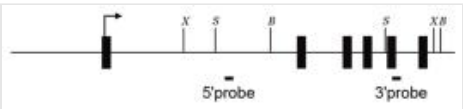
PRODUCT SYNONYMS

Granulocyte Colony Stimulating Factor; Mouse Granulocyte Colony Stimulating Factor Recombinant; Csf3 active protein

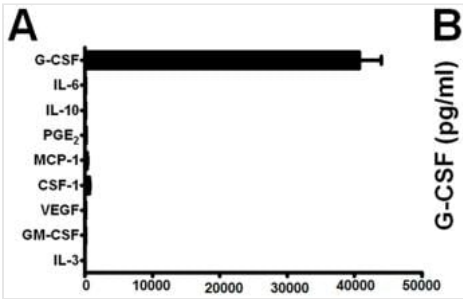
PRODUCT SPECIFICATIONS

Host	E coli (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	IR recombinant mouse G-CSF was lyophilized from a 0.2 um filtered PBS solution.
Sequence	MAQLSAQRRM KLMAQLLLW QSALWSGREA VPLVTVSALP PSLPLPRSFL LKSLEQVRKI QASGSVLLEQ LCATYKLCHP EELVLLGHSL GIPKASLSGC SSQALQQTQC LSQLHSGLCCL YQGLLQALSG ISPALAPTLT LLQLDVANFA TTIWQQMENL GVAPTVQPTQ SAMPFTSAF QRRAGGVLA I SYLQGFLTA RLALHHLA
Source	Optimized DNA sequence encoding mouse Granulocyte Colony Stimulating Factor mature chain was expressed in Escherichia Coli.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Biological Activity	The ED(50) was determined by the dose-dependent proliferation of murine M-NFS-60 cells is <.05 ng/ml, corresponding to a specific activity of > x units/mg.
Method	Bone marrow transductionRetroviral transduction of bone marrow was done as previously described (6/ml) were prestimulated for 48 hours in IDMEM containing 10% Premium FBS, 2% Penicillin/Streptomycin, and 100 ng/ml each of recombinant murine TPO, G-CSF, and SCF. For primary transduction, cells were resuspended in appropriate retroviral supernatant containing growth factors and seeded onto fibronectin coated wells Cell culture and retroviral transductionKasumi-1, 293T and U937 cells were cultured as previously described. G-CSF (granulocyte colony-stimulating factor)-mobilized peripheral blood CD34+ cells were cultured in Iscove's medium'>modified medium'>Dulbecco's medium supplemented with 20% fetal calf serum, 20?ng/ml Flt-3?l, 20?ng/ml GM-CSF, 20?ng/ml stem cell factor (SCF), 20?ng/ml thrombopoietin, 20?ng/ml interleukin (IL)-6, 10?ng/ml IL-3 (all cytokines were obtained,.,), 100?U/ml penicillin/streptomycin and 2?mM L-glutamine. Retroviral transduction and long-term cultivation were performed as previously described. IMR-90 cells (ATCC-CCL-186) were cultured as suggested by the supplier.
Molecular Function	Cytokine
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Preparation and Storage	The lyophilized protein is stable for at least years from date of receipt at-20 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2 degree -8 degree C for one month, or at-20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

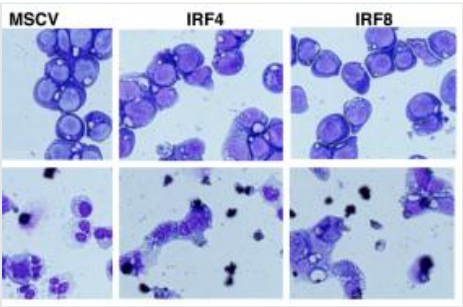
IMAGES



Application Data
Generation of conditional TAK1-deficient mice.Colony formation by BM cells from Map3k7



Application Data
G-CSF production by various mouse tumor models.Sera G-CSF levels determined from nontumor-bearing mice (n=?10), mice treated with recombinant G-CSF protein (10 ug daily for 5 consecutive days) (n=?8) or mice bearing 4T1 cells (n=?9) or AT-3 tumor cells pooled from two separate experiments (n=?9; overall tumor volume ?2cm3).



Application Data
Inhibition of neutrophil differentiation by IRF4.Wright-Giemsa staining of 32Dcl.3 cells transduced with empty MSCV-puro, MSCV-IRF4DYKDDDDK-puro or MSCV-IRF8DYKDDDDK-puro and cultured in the presence of IL-3 (upper panels) or G-CSF (for 7 days, lower panels).

ADDITIONAL INFORMATION

Product Categories/Family for Csf3 active protein	Hematopoietins; IL-6 gp130 family; Recombinant Mouse Cytokines
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6753536
NCBI GeneID	12985
NCBI Accession #	NP_034101.1
NCBI GenBank Nucleotide #	NM_009971.1
UniProt Accession #	P09920; Q99062 CSF3R_HUMAN
Molecular Weight	22,421 Da
NCBI Official Full Name	granulocyte colony-stimulating factor
NCBI Official Synonym Full Names	colony stimulating factor 3 (granulocyte)
NCBI Official Symbol	Csf3
NCBI Official Synonym Symbols	Csfg; G-CSF; MGI-IG
NCBI Protein Information	granulocyte colony-stimulating factor
UniProt Protein Name	Granulocyte colony-stimulating factor

UniProt Gene Name	Csf3
UniProt Synonym Gene Names	Csfg; G-CSF
UniProt Entry Name	CSF3_MOUSE

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-active-protein/granulocyte-colony-stimulating-factor/76390>