

Granulocyte Macrophage Colony Stimulating Factor (rHuGM-CSF) Active Protein | CSF2 active protein

Recombinant Human Granulocyte Macrophage Colony Stimulating Factor (rHuGM-CSF)

CATALOG # AAA47951	HOST E Coli
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PRODUCT SYNONYMS

Granulocyte Macrophage Colony Stimulating Factor (rHuGM-CSF); Recombinant Human Granulocyte Macrophage Colony Stimulating Factor (rHuGM-CSF); CSF2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Specificity	Recombinant Human Granulocyte Macrophage Colony Stimulating Factor (rHuGM-CSF)
Purity/Purification	>98% as determined by RPHPLC and SDS-PAGE.
Form/Format	Sterile filtered and lyophilized after dialysis against 2mM sodium phosphate, pH 7.4. Purified by proprietary chromatographic techniques.
Sequence	AMINOACIDS EQUENCE Thefirstf iveN-termi nalaminoac idsareAla- Pro-Ala-Ar g-Ser.N-te rminalmeth ionineisre movedenzym atically.
Biological Activity	E050 by dose-dependent stimulation of proliferation of human TF-1 cells (human erythroleukemic indicator cell line) is <0.1ng/ml which corresponds to a Specific Activity of 11,100,000 IU/mg.
Preparation and Storage	Reconstitute lyophilized GM-CSF in sterile distilled H2O at not less than 100ug/ml. This can be further diluted in other aqueous solutions. Store lyophilized product desiccated below -18 degree C. After reconstitution, GMCSF may be stored at 4 degree C for 2-7 days and below -18 degree C for future use. For long term storage, addition of 0.1 % human serum albumin or bovine serum albumin is recommended. Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CSF2 active protein	Description: Recombinant human GM-CSF produced in E. coli is a single, non-glycosylated polypeptide containing 127 amino acids with a molecular weight of 14,4770a. Background: GM-CSF was first identified as a growth factor that supports in vitro colony formation of granulocyte-macrophage progenitor cells. It is produced in response to immune or inflammatory stimuli by activated T cells, B cells, macrophages, mast cells, fibroblasts, and alveolar epithelial cells. GM-CSF is a 22kOa protein, 144 amino acids, composed of four bundle alpha helices.
Product Categories/Family for CSF2 active protein	Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	27437030
NCBI GeneID	1437
NCBI Accession #	NP_000749.2
NCBI GenBank Nucleotide #	NM_000758.2
UniProt Accession #	P04141 ; Q14CE8 ; Q2VPI8 ; Q8NFI6 ; Q647J8

Molecular Weight	16,295 Da
NCBI Official Full Name	granulocyte-macrophage colony-stimulating factor
NCBI Official Synonym Full Names	colony stimulating factor 2 (granulocyte-macrophage)
NCBI Official Symbol	CSF2
NCBI Official Synonym Symbols	GMCSF; MGC131935; MGC138897
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor; CSF; molgramostin; sargramostim; OTTHUMP00000065962; granulocyte-macrophage colony stimulating factor
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor
UniProt Gene Name	CSF2
UniProt Synonym Gene Names	GMCSF
UniProt Entry Name	CSF2_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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/granulocyte-macrophage-colony-stimulating-factor-rhugm-csf/47951>