

Granulocyte Macrophage-Colony Stimulating Factor Active Protein | rGM active protein

Recombinant Rat Granulocyte Macrophage-Colony Stimulating Factor

CATALOG # AAA38187	HOST E Coli
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PRODUCT SYNONYMS

Granulocyte Macrophage-Colony Stimulating Factor; Recombinant Rat Granulocyte Macrophage-Colony Stimulating Factor; GM-CSF Rat; Granulocyte Macrophage-Colony Stimulating Factor Rat Recombinant; CSF-2; MGI-1GM; GM-CSF; Pluripoietin-alpha; Molgramostin; Sargramostim; rGM-CSF; rGM active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by: (a)Analysis by RP-HPLC. (b)Analysis by SDS-PAGE.
Form/Format	GM-CSF Rat was lyophilized with no additives. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	Thesequenc eofthefirs tfiveN-ter minalamino acidswasde terminedan dwasfoundt obeMet-Ala -Pro-Thr-A rg
Sequence Length	144
Solubility	It is recommended to reconstitute the lyophilized Granulocyte Macrophage Colony Stimulating Factor in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 range = 0.001-0.01ng/ml corresponding to a specific activity of 100,000,000-1,000,000,000IU/mg, determined by the dose dependent proliferation of murine MC/9 cells.
Preparation and Storage	Lyophilized Granulocyte Macrophage Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution GMCSF 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 rGM active protein	Description: Granulocyte Macrophage Colony Stimulating Factor Rat Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 128 amino acids and having a molecular mass of 14590.65 Dalton. GM-CSF Rat Recombinant is purified by proprietary chromatographic techniques. Introduction: GMCSF is a cytokine that controls the production, differentiation, and function of granulocytes and macrophages. The active form of the protein is found extracellularly as a homodimer. This gene has been localized to a cluster of related genes at chromosome region 5q31, which is known to be associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. Other genes in the cluster include those encoding interleukins 4, 5, and 13.GM-CSF stimulates the growth and differentiation of hematopoietic precursor cells from various lineages, including granulocytes, macrophages, eosinophils and erythrocytes.
Product Categories/Family for rGM active protein	Cytokines and Growth Factors; Growth Factors; Colony Stimulating Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	449083355
NCBI GeneID	116630
NCBI Accession #	NP_446304.1

NCBI GenBank Nucleotide #	NM_053852.1
UniProt Accession #	P48750
Molecular Weight	16,562 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; Gm-csf
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor; CSF
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor
UniProt Gene Name	Csf2
UniProt Synonym Gene Names	Csfgm; GM-CSF; CSF
UniProt Entry Name	CSF2_RAT

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://www.aaabiotech.com/e-coli-rgm-active-protein/granulocyte-macrophage-colony-stimulating-factor/38187>