

Granulocyte Macrophage-Colony Stimulating Factor Active Protein | pGM CSF active protein

Recombinant Porcine Granulocyte Macrophage-Colony Stimulating Factor

CATALOG # AAA38190	HOST E Coli
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PRODUCT SYNONYMS

Granulocyte Macrophage-Colony Stimulating Factor; Recombinant Porcine Granulocyte Macrophage-Colony Stimulating Factor; GM CSF Porcine; Granulocyte Macrophage-Colony Stimulating Factor Porcine Recombinant; CSF-2; MGI-1GM; GM-CSF; Pluripoietin-alpha; Molgramostin; Sargramostim; pGM CSF 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 Porcine was lyophilized with no additives. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	<u>MSPILGY WKIKGLVQPT RLLLEYLEEK YEEHLYERDE GDKWRNKKFE LGLEFPNLPY YIDGDVKLTQ</u> <u>SMAIRYIAD KHNMLGGCPK ERAEISMLEG AVLDIRYGVS RIAYSKDFET LKVDFLSKLP EMLKMFEDRL</u> <u>CHKTYLNGDH VTHPDFMLYD ALDVVLYMDP MCLDAFPKLV CFKKRIEAIP QIDKYLKSSK YIAWPLQGWQ</u> <u>ATFGGGDHPP KSDLVPRGSP EFAMPM FIVNTNVPRA SVPDGFLSEL TQQLAQATGK PPQYIAVHV</u> <u>PDQLMAFGGS SEPCALCSLH SIGKIGGAQN RSYSKLLCGL LAERLRISPD RVYINYDDMN AANVGWNNST FA</u>
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.
Protein Content	GMCSF quantitation was carried out by two independent methods:1. UV spectroscopy at 280 nm using the absorbency value of 0.977 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 GM-CSF as a Reference Standard.
Biological Activity	The ED50 range= 15-30ng/ml corresponding to a Specific Activity of 33,334-66,667IU/mg, determined by the dose dependent proliferation of TF-1 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 pGM CSF active protein	Description: Granulocyte Macrophage Colony Stimulating Factor Porcine Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 127 amino acids and having a molecular mass of 14381 Dalton.GM-CSF Porcine 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.
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Product Categories/Family for pGM
CSF active protein

Cytokines and Growth Factors; Growth Factors; Colony Stimulating Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	47523044
NCBI GeneID	397208
NCBI Accession #	NP_999283.1
NCBI GenBank Nucleotide #	NM_214118.2
UniProt Accession #	Q29118; Q29046
Molecular Weight	16,254 Da
NCBI Official Full Name	granulocyte-macrophage colony-stimulating factor
NCBI Official Symbol	CSF2
NCBI Official Synonym Symbols	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	GM-CSF; CSF
UniProt Entry Name	CSF2_PIG

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-pgm-csf-active-protein/granulocyte-macrophage-colony-stimulating-factor/38190>