

## 32-1291: rmGM CSF Recombinant Protein

**Alternative Name :** CSF-2,MGI-1GM,GM-CSF,Pluripoietin-alpha,Molgramostin,Sargramostim, MGC131935,MGC138897.

### Description

Source : Escherichia Coli. Granulocyte Macrophage Colony Stimulating Factor Monkey Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 127 amino acids and having a molecular mass of 14.4 kDa.GM-CSF is purified by proprietary chromatographic techniques. 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 Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 98.0% as determined by SDS-PAGE and RP-HPLC.
<b>Content :</b>	GM-CSF was lyophilized from a concentrated (1mg/ml) solution containing 1x PBS pH 7.4.
<b>Storage condition :</b>	Lyophilized GMCSF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GMCSF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	APARSPSPGT QPWEHVNAIQ EARRLLNLSR DTAAEMNKTV EVVSEMFDLQ EPSCLQTRLE LYKQLQGSL TKLKGPLTMM ASHYKQHCPP TPETSCATQI ITFQSFKENL KDFLLVIPFD CWEPVQE.

### Application Note

It is recommended to reconstitute the lyophilized GMCSF in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\mu$ g/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by a cell proliferation assay using human TF-1 cells is less than 0.1ng/ml, corresponding to a specific activity of > 10,000,000 IU/mg.

