

## 32-1292: k9GM CSF Recombinant Protein

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

### Description

Source : Escherichia Coli. GMCSF k9 Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 128 amino acids and having a molecular mass of 14.2 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

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|----------------------------|--|
| <b>Amount :</b>            | 10 µg  |
| <b>Purification :</b>      | Greater than 96.0% as determined by1. Analysis by RP-HPLC.2. Analysis by SDS-PAGE.   |
| <b>Content :</b>           | GMCSF was lyophilized after extensive dialysis against 1xPBS 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>        | APTRSPTLVT RPSQHVDIAIQ EALSLLNNSN DVTAVMKNKAV KVVSEVFDPEGPTCLETRLQ LYKEGLQGSL<br>TSLKNPLTMM ANHYKQHCPP TPESPCATQINIFKSFKENL KDFLFNIPFD CWKPVKK.  |

### Application Note

It is recommended to reconstitute the lyophilized GMCSF in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\Omega$ µg/ml, which can then be further diluted to other aqueous solutions. The ED50 as calculated by the dose-dependent stimulation of the proliferation of human TF1 erythroleukemic cells is typically 1-4 ng/ml.

