

32-1289: rGM CSF Recombinant Protein

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

Description

Source : Escherichia Coli. 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. 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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| Amount : | 20 µg |
| Purification : | Greater than 95.0% as determined by:(a)Analysis by RP-HPLC.(b)Analysis by SDS-PAGE. |
| Content : | GM-CSF Rat was lyophilized with no additives. |
| Storage condition : | Lyophilized Granulocyte Macrophage Colony Stimulating Factor 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. |
| Amino Acid : | The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ala-Pro-Thr-Arg. |

Application Note

It is recommended to reconstitute the lyophilized Granulocyte Macrophage Colony Stimulating Factor in sterile 18MΩ·cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. 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.

