

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

Amount :	10 µg
Purification :	Greater than 96.0% as determined by 1. Analysis by RP-HPLC. 2. Analysis by SDS-PAGE.
Content :	GMCSF was lyophilized after extensive dialysis against 1xPBS pH 7.4.
Storage condition :	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.
Amino Acid :	APTRSPTLVT RPSQHVDIAIQ EALSLLNNSN DVTAVMKNKAV KVVSEVFDPEGPTCLETRLQ LYKEGLQGSL TSLKNPLTMM ANHYKQHCPP TPESPCATQINIFKSFKENL KDFLFNIPFD CWKPVKK.

Application Note

It is recommended to reconstitute the lyophilized GMCSF in sterile 18Mℓ-cm H₂O not less than 100Åµg/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.

