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32-6381: GMCSF Porcine

Application: Functional Assay

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

Description

Source: Escherichia Coli.

Sterile Filtered White lyophilized (freeze-dried) powder.

GMCSF is a cytokine that controls the production, differentiation, and function of granulocytes and macrophages. The active form of GMCSF is found extracellularly as a homodimer. GMCSF 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.

Granulocyte Macrophage-Colony Stimulating Factor Porcine Recombinant produced in E. coli is a non-glycosylated monomer chain containing 128 amino acids and having a molecular mass of 14.5kDa. GMCSF is purified by proprietary chromatographic techniques.

Product Info

Amount: 50 μg / 100 μg

Purification : Greater than 95.0% as determined by SDS-PAGE.

The protein was lyophilized from a sterile (0.2µm) filtered solution containing 10mM sodium

phosphate, pH 7.5.

Content: It is recommended to reconstitute the lyophilized GMCSF in sterile 18M Omega -cm H2O not

less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Lyophilized GMCSF although stable at room temperature for 3 weeks, should be stored

Storage condition : desiccated below -18°C. Upon reconstitution GMCSF should be stored at 4°C between 2-7 days

and for future use below -18°C. Please prevent freeze-thaw cycles.

Amino Acid: MAPTRPPSPV TRPWQHVDAI KEALSLLNNS NDTAAVMNET VDVVCEMFDP QEPTCVQTRL

NLYKOGLRGS LTRLKSPLTL LAKHYEOHCP LTEETSCETQ SITFKSFKDS LNKFLFTIPF DCWGPVKK.

Application Note

The ED50, as determined by TF-1 cell proliferation is 4.52ng/ml corresponding to a specific activity which is 2.2×10^5 units/mg.