

32-6376: GCSF Monkey

Application : Functional Assay

Alternative Name : CSF3, MGI-1G, GM-CSF beta, Pluripoietin, G-CSF, GCSF.

Description

Source: Escherichia Coli.

Sterile Filtered White lyophilized (freeze-dried) powder.

GCSF is a cytokine that controls the production, differentiation, and function of granulocytes. The active protein is found extracellularly. 3 transcript variants encoding 3 different isoforms have been found for the GCSF gene. Granulocyte/macrophage colony-stimulating factors are cytokines that take part in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. This csf induces granulocytes.

Granulocyte Colony Stimulating Rhesus Macaque Recombinant produced in E.Coli is a non-glycosylated polypeptide chain containing 174 amino acids and having a molecular mass of approximately 18.9kDa. GCSF is purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH7.4.

Content : It is recommended to reconstitute the lyophilized Granulocyte Colony Stimulating Rhesus Macaque in sterile 18M Omega -cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Storage condition : Lyophilized GCSF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Granulocyte Colony Stimulating Rhesus Macaque should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Amino Acid : TPLGPASSLP QSFLKCLEQ VRKIQGDGAA LQEKLCATYK LCHPEELVLL RHSLGIPWAP LSSCPSQALQ LTGCLSQLHS SLFLYQGLLQ ALEGISPELS PTLDTLQLDI ADFATTIWQQ MEDLGMAPAL QPTQGAMPAF TSAFQRRAGG VLVASHLQRF LELAYRVLRLH LAQS.

Application Note

The ED50 as determined by a cell proliferation assay using murine NFS-60 cells is < 0.05 ng/ml, corresponding to a specific activity of > 2.0 x 10⁷ IU/mg.