

DATASHEET
Version 20181206**GM-CSF, RhesusMacaque****Cat. No.:** Z02761-1**Size:** 1.0 mg**Synonyms:** Granulocyte Macrophage Colony Stimulating Factor (GM-CSF), Rhesus Macaque;**Description:**

GM-CSF was initially characterized as a growth factor that can support the in vitro colony formation of granulocyte-macrophage progenitors. It is produced by a number of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial cells and fibroblasts) in response to cytokine or immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic cells, GM-CSF is a survival factor for and activates the effector functions of granulocytes, monocytes/macrophages and eosinophils.

Amino Acid Sequence:

00001 APARSPSPGT QPWEHVNAIQ EARRLLNLSR DTAAEMNKT
00041 EVVSEMFDLQ EPSCLQTRLE LYKQGLQGSL TKLKGPLTMM
00081 ASHYKQHCPP TPETSCATQI ITFQSFKENL KDFLLVIPFD
00121 CWEPVQE

Source: *E. coli***Species:** RhesusMacaque**Biological Activity:** Fully biologically active when compared to standard. The ED₅₀ as determined by a cell proliferation assay using human TF-1 cells is less than 0.1 ng/ml, corresponding to a specific activity of > 1.0 × 10⁷ IU/mg.**Molecular Weight:** Approximately 14.4 kDa, a single non-glycosylated polypeptide chain containing 127 amino acids.**Formulation:** Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.**Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.**Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.**Purity:** > 98 % by SDS-PAGE and HPLC analyses.**Endotoxin Level:** Less than 1 EU/µg of rRhGM-CSF as determined by LAL method.**Storage:** This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.