Technical Data Sheet

Recombinant Rhesus macaque GM-CSF (rRhGM-CSF)

Rhesus macaque Granulocyte-Macrophage Colony Stimulating Factor

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.

Catalog Number:	RC223-14
Source:	*Escherichia coli.*
Molecular Weight:	Approximately 14.4 kDa, a single non-glycosylated polypeptide chain containing 127 amino acids.
Quantity:	2ug/10ug/1mg
AASequence:	APARSPSPGTQPWEHVNAIQEARRLLNLSRDTAAEMNKTVEVVSEMFDLQEPSCLQ TRLELYKQGLQGSLTKLKGPLTMMASHYKQHCPPTPETSCATQIITFQSFKENLKDFLL VIPFDCWEPVQE
Purity:	>98% by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED50 as calculated by the dose-dependant stimulation of the proliferation of human TF-1 cells is less than 0.1 ng/ml, corresponding to a Specific Activity of 1.0×10^7 IU/mg.
Formulation:	Lyophilized from a 0.2μm filtered concentratedcsolution in PBS, pH 7.4.
Endotoxin:	Less than 1EU/μg of rRhGM-CSF as determined by LAL method.
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.

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.

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