

**GM-CSF**  
**Catalog # PVGS1052****Specification**

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**GM-CSF - Product Information**Primary Accession [Q9GL44](#)**Species**  
Rhesus Macaque**Sequence**  
Ala18-Glu144**Purity**  
> 98% as analyzed by SDS-PAGE  
> 98% as analyzed by HPLC**Endotoxin Level**  
< 1 EU/ µg of protein by LAL method**Biological Activity**  
Fully biologically active when compared to standard. The ED<sub>50</sub> 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 × 10<sup>7</sup> IU/mg.**Expression System**  
E. coli**Theoretical Molecular Weight**  
14.4 kDa**Formulation**  
**Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.****Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.**GM-CSF - Additional Information****Target Background**  
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. Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) 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 of immune and inflammatory stimuli.

Besides granulocyte-macrophage progenitors, Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) is a growth factor for erythroid, megakaryocyte, and eosinophil progenitors. On mature hematopoietic, monocytes/macrophages and eosinophils. Additionally, Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) can stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma, and adenocarcinoma cell lines.

### **GM-CSF - Protein Information**

### **GM-CSF - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **GM-CSF - Images**