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# GM-CSF

Catalog # PVGS1015

## Product Information

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| **Primary Accession** | P04141 |
| **Species** | Human |
| **Sequence** | Ala18-Glu144 |
| **Purity** | > 95% as analyzed by SDS-PAGE<br>> 95% as analyzed by RP-HPLC |
| **Endotoxin Level** | |
| **Biological Activity** | Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 6-30 pg/mL. |
| **Expression System** | P. pastoris |
| **Theoretical Molecular Weight** | 14.4 kDa |
| **Formulation** | Lyophilized from a 0.2 □m filtered solution in 10 mM Tris-HCl, 4% Mannitol, 1% Sucrose, pH 8.5. |
| **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 distilled water up to 100 □g/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. |

## Additional Information

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| **Gene ID** | 1437 |
| **Other Names** | Granulocyte-macrophage colony-stimulating factor, GM-CSF, Colony-stimulating factor, CSF, Molgramostin, Sargramostim, CSF2, GMCSF |
| **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. Human Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) can induce |

human endothelial cells to migrate and proliferate. 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.

## Protein Information

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| **Name** | CSF2 |
| **Synonyms** | GMCSF |
| **Function** | Cytokine that stimulates the growth and differentiation of hematopoietic precursor cells from various lineages, including granulocytes, macrophages, eosinophils and erythrocytes. |
| **Cellular Location** | Secreted |