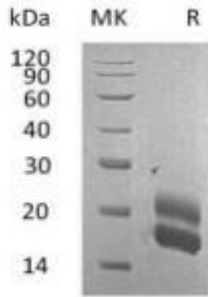


## Recombinant Rat GM-CSF

Catalog#:P00925 Derived from Human Cells

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| <b>DESCRIPTION</b>     | <p>Recombinant Rat Granulocyte- Macrophage Colony-Stimulating Factor is produced by our Mammalian expression system and the target gene encoding Ala18- Lys144 is expressed with a 6His tag at the C-terminus.</p> <p><b>Accession#:</b> P48750</p> <p><b>Known as:</b> Granulocyte- Macrophage Colony-Stimulating Factor; GM-CSF; Colony-Stimulating Factor; CSF; Molgramostin; Sargramostim; CSF2; GMCSF</p>   |
| <b>FORMULATION</b>     | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.  |
| <b>SHIPPING</b>        | <p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>   |
| <b>STORAGE</b>         | <p>Lyophilized protein should be stored at &lt;-20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>  |
| <b>RECONSTITUTION</b>  | <p><i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i></p> <p><i>It is not recommended to reconstitute to a concentration less than 100µg/ml.</i></p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>   |
| <b>QUALITY CONTROL</b> | <p><b>Mol Mass:</b> 15.6kDa <b>AP Mol Mass:</b> 17-25kDa, reducing conditions.</p> <p><b>Purity:</b> Greater than 95% as determined by reducing SDS-PAGE.</p> <p><b>Endotoxin:</b> Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test.</p>  |
| <b>BACKGROUND</b>      | <p>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 of immune and inflammatory stimuli. Besides granulocyte- macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic, monocytes/ macrophages and eosinophils. GM-CSF has a functional role on nonhematopoietic cells. It can induce human endothelial cells to migrate and proliferate. Additionally, GM-CSF can also stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma and adenocarcinoma cell lines.</p> |
| <b>SDS-PAGE</b>        |   |