

## Recombinant Mouse GM-CSF

Catalog No : PMK2120

**Known As:** Granulocyte-macrophage colony-stimulating factor; Csf2; GM-CSF; Colony-stimulating factor; Csfgm

### PROPERTIES

Description	Recombinant Mouse Granulocyte-Macrophage Colony-Stimulating Factor is produced by our E.coli expression system and the target gene encoding Ala18-Lys141 is expressed.
Accession	P01587
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM Tris-HCl, 1mM EDTA, pH 8.0.
Size	10 $\mu$ g/50 $\mu$ g/500 $\mu$ g/1mg
Purity	> 95%
Endotoxin	< 0.01 EU/ $\mu$ g as determined by LAL test.
Predicted Mol Mass	14.2 KDa
Apparent Mol Mass	15 KDa, reducing conditions
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$ , stable for one year after receipt. Reconstituted protein solution can be stored at 2-8 $^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.
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. 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.

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