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USER GUIDE **MesGen Biotechnology**

**Version 2.0**

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| **重组小鼠粒细胞巨噬细胞集落刺激因子**  |

**Recombinant Mouse GM-CSF**

**Cat.No. MGS1252 Lot.No : Refer to Vial**

**Product Size : 10ug□ 50ug□ 500ug□**

**Technical literature is available at:** [**www.mesgenbio.com**](http://www.mesgenbio.com)**. E-mail MesGen Technical Services if you have questions on use of this system:** **tech@mesgenbio.com**

**Accession #:** P01587

**Known as:** Granulocyte-Macrophage Colony-Stimulating Factor; GM-CSF; Colony-Stimulating Factor; CSF;Molgramostin; Sargramostim; CSF2; GMCSF

**Description**

Recombinant Mouse Granulocyte-Macrophage Colony Stimulating Factor is produced by our Mammalian expression system and the target gene encoding Ala18-Lys141 is expressed with a 6His tag at the C-terminus.

**Formulation**

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

**Quality control**

Greater than 95% as determined by reducing SDS-PAGE.

**Endotoxin**

Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.

**Background**

Granulocyte Macrophage Colony Stimulating Factor (GM-CSF) was initially characterized as a growth factorthat can support the in vitro colony formation of granulocyte-macrophage progenitors. It is produced by anumber of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial cellsand fibroblasts) in response to cytokine of immune and inflammatory stimuli. Besides granulocyte macrophageprogenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors.

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**Do not eat**

Onmature hematopoietic, monocytes/ macrophages and eosinophils. GM-CSF has a functional role on nonhematopoitic cells. It can induce human endothelial cells to migrate and proliferate. Additionally, GM-CSF canalso stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma and adenocarcinoma cell lines.

**Bioactivity**

Measured in a cell proliferation assay using FDC-P1 cells.The ED50 for this effect is 40-170 pg/ml.



Recombinant Mouse GM-CSF (pg/ml)

**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 μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Storage condition**

Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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