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## Mouse GM-CSF Recombinant Protein

**Catalog Number:** 14-8331


**Also Known As:** Granulocyte/Macrophage-Colony Stimulating Factor, GMCSF

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

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### Product Information

**Contents:** Mouse GM-CSF Recombinant Protein

 **Catalog Number:** 14-8331

**Handling Conditions:** For best recovery, quick-spin vial prior to opening. Use in a sterile environment

**Source:** E. coli expressed mature mouse GM-CSF accession # NM\_009969

**Purity:** > 98%, as determined by SDS-PAGE

**Endotoxin Level:** Less than 0.01 ng/ug cytokine as determined by the LAL assay.

**Bioactivity:** The ED50 of this protein, as measured by MC/9 cell proliferation assay, is less than or equal to 650 pg/mL. This corresponds to a specific activity of greater than or equal to 1.5 x 10e6 Units/mg.

**Formulation:** Sterile liquid; phosphate buffered saline, pH 7.2, 1% BSA, 0.22 um filtered.



**Temperature Limitation:** Store at less than or equal to -70°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial

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### Description

Mouse Granulocyte/Macrophage Colony Stimulating Factor (GM-CSF) is an ~14 kDa factor produced mainly by activated T cells and macrophages. Other cell types, such as endothelium and fibroblasts, also secrete GM-CSF in response to TNF- $\alpha$ , IL-2, IL-1, and IFN- $\gamma$ . GM-CSF stimulates growth of macrophages, granulocytes and dendritic cells. GM-CSF is found as a membrane-bound form and also as a complex associated with the extracellular matrix. Non-glycosylated GM-CSF is biologically active.

### Applications Reported

Recombinant mouse GM-CSF is biologically active and can promote proliferation of mouse MC/9 cells in culture. It is also used as a standard cytokine in mouse GM-CSF ELISA.

### Applications Tested

The ED50 of this protein, as measured by MC/9 cell proliferation assay, is less than or equal to 650 pg/mL. This corresponds to a specific activity of greater than or equal to 1.5 x 10e6 Units/mg.

### Related Products

00-4202 ELISA Diluent Solution (5X)

13-7332 Anti-Mouse GM-CSF Biotin (MP1-31G6)

14-7331 Anti-Mouse GM-CSF Purified (MP1-22E9)

18-4100 Avidin HRP

44-2404 Nunc MaxiSorp® flat-bottom 96 well plate

88-7334 Mouse GM-CSF ELISA Ready-SET-Go!®

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