

DATASHEET
Version 20181206**GM-CSF, Mouse****Cat. No.:** Z03300-50**Size:** 50.0 ug**Synonyms:** GMCSF, Granulocyte/Macrophage Colony-Stimulating Factor, CSF-2, MGI-1GM, pluripoietin-alpha**Description:**

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 and other immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic cells, GM-CSF is a survival factor that activates effector functions of granulocytes, monocytes/macrophages and eosinophils. Recombinant Mouse GM-CSF produced in *E.coli* is a single non-glycosylated polypeptide chain containing 125 amino acids. A fully biologically active molecule, rmGM-CSF has a molecular mass of 14.3 kD analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Source: *E. coli***Biological Activity:** ED₅₀ < 5 pg/ml, measured in a cell proliferation assay using mouse FDC-P1 cells, corresponding to a specific activity of >2 x 10⁸ units/mg.**Molecular Weight:** 14.3 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 µg/ml.**Purity:** > 98% as analyzed by SDS-PAGE&HPLC.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant Mouse GM-CSF remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse GM-CSF should be stable up to 1 week at 4°C or up to 3 months at -20°C.