

DATASHEET
Version 20181206**GM-CSF, Rat****Cat. No.:** Z02992-1**Size:** 1.0 mg**Synonyms:** 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. Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) 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, Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) is a growth factor for erythroid, megakaryocyte, and eosinophil progenitors. On mature hematopoietic, monocytes/macrophages and eosinophils.

Amino Acid Sequence:

00001 APTRSPNPVT RPWKHVDIAIK EALSLLNDMR ALENKNEDEV
00041 DIISNEFSIQ RPTCVQTRLK LYKQGLRGNL TKLNGALTM
00081 ASHYQTNCP TPETDCEIEV TTFEDFIKNL KGFLFDIPFD
00121 CWKPVQK

Source: CHO**Species:** Rat**Biological Activity:** ED₅₀ < 5 pg/ml, measured in a cell proliferation assay using FDC-P1 cells, corresponding to a specific activity of > 2×10⁸ units/mg.**Molecular Weight:** 16-26 kDa, observed by non-reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant Rat Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rrGM-CSF should be stable up to 1 week at 4°C or up to 2 months at -20°C.