DATASHEET
Version 20181206

GM-CSF, Rat

Cat. No.: Z02992-50

Size: 50.0 ug

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:

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00001 APTRSPNPVT RPWKHVDAIK EALSLLNDMR ALENEKNEDV
00041 DIISNEFSIQ RPTCVQTRLK LYKQGLRGNL TKLNGALTMI
00081 ASHYQTNCPP TPETDCEIEV TTFEDFIKNL KGFLFDIPFD
00121 CWKPVQK
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Source: *CHO*

Species: Rat

Biological Activity: ED_{50} < 5 pg/ml, measured in a cell proliferation assay using FDC-P1 cells, corresponding to a specific activity of > 2×10^8 units/mg.

Molecular Weight: 16-26 kDa, observed by non-reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O 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.

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