

GM-CSF, Human(CHO-expressed)

Cat. No.: Z02983-50

Size: 50.0 ug

Synonyms: Granulocyte/Macrophage Colony-Stimulating Factor, CSF-2, MGI-1GM, pluripoietin- α

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 cells, GM-CSF is a survival factor for and activates the effectors functions of granulocytes, monocytes/macrophages and eosinophils. Human Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) can induce human endothelial cells to migrate and proliferate. Additionally, Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) can stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma, and adenocarcinoma cell lines.

Amino Acid Sequence:

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00001 APARSPSPST QPWEHVNAIQ EARRLLNLSR DTAEMNETV
00041 EWISEMFDLQ EPTCLQTRL E LYKQGLRGL TKLKGPLTMM
00081 ASHYKQHCPP TPETSCATQI ITFESFKENL KDFLLVIPFD
00121 CWEPVQE
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Source: CHO

Species: Human

Biological Activity: ED₅₀ < 0.2 ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 5×10⁶ units/mg.

Molecular Weight: 22-28 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 human Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhGM-CSF should be stable up to 1 week at 4°C or up to 2 months at -20°C.