

DATASHEET Version 20181206

GM-CSF, Human(CHO-expressed)

Cat. No.: Z02983-10

Size: 10.0 ug

 $\begin{tabular}{ll} \textbf{Synonyms}: & Granulocyte/Macrophage & Colony-Stimulating Factor, CSF-2, MGI-1GM, pluripoietin-α \end{tabular}$

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:

00001 APARSPSPST QPWEHVNAIQ EARRLLNLSR DTAAEMNETV 00041 EVISEMFDLQ EPTCLQTRLE LYKQGLRGSL TKLKGPLTMM 00081 ASHYKQHCPP TPETSCATQI ITFESFKENL KDFLLVIPFD 00121 CWEPVGE

Source: CHO
Species: Human

Biological Activity: $ED_{50} < 0.2$ ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of $> 5 \times 10^6$ 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.

 ${f Purity}$: > 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.