Human GM-CSF Recombinant Protein

Catalog Number: 14-8339
Also Known As: Granulocyte/Macrophage-Colony Stimulating Factor, GMCSF
For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Human GM-CSF Recombinant Protein

REF **Catalog Number:** 14-8339

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment

Source: E. coli expressed amino acids ala 18 - glu144 of mature human GMCSF accession # NM_000758

Molecular Mass: The protein is not methionylated at the N-terminal and has a predicted molecular mass of 14,478. The DTT reduced protein migrates as a 14 kDa polypeptide on SDS-PAGE. The non-reduced protein migrates as a 13 kDa polypeptide.

Purity: Greater than or equal to 95%, as determined by SDS-PAGE

Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: The ED50 of this protein, as measured by TF-1 cell proliferation assay, is less than or equal to 100 pg/mL. This corresponds to a specific activity of greater than or equal to 1 x 10e7 Units/mg.

Formulation: Sterile liquid; phosphate buffered saline, pH 7.2, 1.0% BSA. 0.22 um filtered.

Temperature Limitation: Store at less than or equal to -70°C.

LOT **Batch Code:** Refer to Vial

Use By: Refer to Vial

Description

Human GM-CSF (Granulocyte/Monocyte-Colony Stimulating Factor) is a differentially glycosylated factor produced mainly by activated T cells and macrophages. Endothelial cells and fibroblasts can also produce GM-CSF after exposure to TNF-α, IL-1, IL-2 and IFN-γ. GM-CSF is found associated with extracellular matrix and in membrane-bound formats too. GM-CSF stimulates proliferation, activation and differentiation of macrophages and granulocytes and their progenitors.

Applications Reported

Recombinant human GM-CSF is biologically active and can promote proliferation of human TF-1 cell line in culture. It is also used as a standard for a human GM-CSF ELISA.

Applications Tested

The ED50 of this protein, as measured by TF-1 cell proliferation assay, is less than or equal to 100 pg/mL. This corresponds to a specific activity of greater than or equal to 1 x 10e7 Units/mg.

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