

GM-CSF

Catalog Number: E21-003

Amount: 10ug

Altername:Granulocyte-Macrophage Colony-Stimulating Factor; GM-CSF; Colony-Stimulating Factor; CSF: Molgramostin; Sargramostin; CSF2; GMCSF

Storage/Stability:Lyophilized protein should be stored at $< -20^{\circ}$ C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at $< -20^{\circ}$ C for 3 months.

Background: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. It 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, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic, monocytes/ macrophages and eosinophils. GM-CSF has a functional role on non-hematopoitic cells. It can induce human endothelial cells to migrate and proliferate. Additionally, GM-CSF can also stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma and adenocarcinoma cell lines.

Species:Human

Reconstitution:Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin:Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.

Purity: Greater than 95% as determined by reducing SDS-PAGE.

Description:Recombinant Human Granulocyte-Macrophage Colony-Stimulating Factor is produced by our E.coli expression system and the target gene encoding Ala18-Glu144 is expressed.

Product State:Lyophilized

Ship Description: The product is shipped at ambient temperature.

 $\textbf{Formulation:} Lyophilized from a 0.2~\mu\text{m filtered solution of 20mM PB, 150mM NaCl, 5\% Mannitol, pH 7.2.}$

Expression system: E.coli

