

# Recombinant Human GM-CSF (C-6His)

Catalog # EPT269

**Expression Host** Human Cells

**DESCRIPTION** Recombinant Human Granulocyte-Macrophage

Colony-Stimulating Factor is produced by our

Mammalian expression system and the target gene

encoding Ala18-Glu144 is expressed with a 6His tag at

the C-terminus.

Accession P04141

**Synonyms** Granulocyte-macrophage colony-stimulating factor;

Colony-stimulating factor; CSF

Mol Mass 15.5 KDa

**AP Mol Mass** 17-22 KDa, reducing conditions

**Purity** Greater than 95% as determined by reducing

SDS-PAGE.

**Endotoxin** Less than 0.1 ng/μg (1 EU/μg) as determined by LAL

test.

**FORMULATION** Lyophilized from a 0.2 µm filtered solution of 20mM

PB, 150mM NaCl, pH 7.4.



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#### RECONSTITUTION

Always centrifuge tubes before opening.Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## **SHIPPING**

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

## **STORAGE**

Lyophilized protein should be stored at < -20 ° 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° C for 3 months.

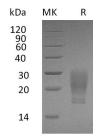
#### **BACKGROUND**

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 inflammatory stimuli. **Besides** immune and 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, osteogenic sarcoma, including carcinoma adenocarcinoma cell lines.



## **SDS-PAGE**

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