

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant GM-CSF, Human(CHO-expressed)

Catalog Number: BK0211-50µg

Source: CHO

Quantity: 50µg

### 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 effects 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.

### Molecular Weight:

22-28 kDa, observed by non-reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

### Biological Activity:

ED50 < 0.2 ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 5×10<sup>6</sup> units/mg.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

APARSPSPSTQPWEHVNAIQEARLLNLSRD-  
TAAEMNETVEVISEMFDLQEPTCLQTRLE-  
LYKQGLRGS�TKLKGPLTMMASHYK-  
QHCPTPETSCATQIIT-  
FESFKENLKDFLLVIPFDCWEPVQE

### Endotoxin:

< 0.2 EU/µg, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/ml.

### Storage:

Lyophilized recombinant human Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) remains stable up to 6 months at -80 °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.

### Usage:

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