

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant GM-CSF, Mouse

Catalog Number: BK0067-1mg

Source: Escherichia coli.

Quantity: 1mg

### 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. 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 and other immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic cells, GM-CSF is a survival factor that activates effector functions of granulocytes, monocytes/macrophages and eosinophils. Recombinant Mouse GM-CSF produced in E.coli is a single non-glycosylated polypeptide chain containing 125 amino acids. A fully biologically active molecule, rmGM-CSF has a molecular mass of 14.3 kD analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

### Molecular Weight:

14.3 kDa, observed by reducing SDS-PAGE.

### Purity:

> 98% as analyzed by SDS-PAGE&HPLC.

### Biological Activity:

ED50 < 5 pg/ml, measured in a cell proliferation assay using mouse FDC-P1 cells, corresponding to a specific activity of >2 x 10<sup>8</sup> units/mg.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

MAPTRSPITVTRPWKHVEAIKEAL-  
NLLDDMPVTLNEEVEVVSNEFSFKKL  
TCVQTRLKIFEQGLRGNFTKLKGALNMTA-  
SYYQTYCPPTPETDCETQVTT  
YADFIDSLKTFLTDIPFECKKPVQK

### 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 Mouse GM-CSF remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Mouse GM-CSF should be stable up to 1 week at 4 °C or up to 3 months at -20 °C.

### Usage:

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