

## GM-CSF, Mouse

**Cat. No.:** Z02979-50

**Size:** 50.0 ug

**Synonyms:** Granulocyte/Macrophage-Colony Stimulating Factor, GMCSF

### 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 or 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 for and activates the effectors functions of granulocytes, monocytes/macrophages and eosinophils.

### Amino Acid Sequence:

```
00001 APTTRSPITVT RPWKHVEAIK EALNLLDDMP VTLNEEVEVV  
00041 SNEFSFKKLT CVQTRLKIFE QGLRGNFTKL KGALNMTASY  
00081 YQTYCPPTPE TDCETQVTY ADFIDSLKTF LTDIPFECKK  
00121 PVQK
```

**Source:** CHO

**Species:** Mouse

**Biological Activity:** ED<sub>50</sub> < 0.05 ng/ml, measured in a cell proliferation assay using mouse FDC-P1 cells, corresponding to a specific activity of >2 x 10<sup>7</sup> units/mg.

**Molecular Weight:** 15 19 kDa, observed by non-reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

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

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

**Endotoxin Level:** <0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant murine Granulocyte Macrophage Colony Stimulating Factor (GM-CSF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmGM-CSF should be stable up to 1 week at 4°C or up to 2 months at -20°C.