

## G-CSF, Mouse

**Cat. No.:** Z03163-10

**Size:** 10.0 ug

**Synonyms:** Granulocyte Colony-Stimulating Factor, CSF-3, MGI-1G, GM-CSFb, pluripoietin

### Description:

Granulocyte Colony-Stimulating Factor (G-CSF), also known as CSF-3 and MGI-1G, is a cytokine and hormone belonging to the IL-6 superfamily. It is expressed by monocytes, macrophages, endothelial cells, fibroblasts and bone marrow stroma. G-CSF stimulates the bone marrow to produce granulocytes and stem cells, and specifically stimulates the proliferation and differentiation of the neutrophilic granulocyte lineage. G-CSF has been used to stimulate white blood cell production after chemotherapy. It has also been used to boost the number of hematopoietic stem cells after bone marrow transplantation.

### Amino Acid Sequence:

```
00001 VPLVTVSALP PSLPLPRSF LKSLEQVRKI QASGSVLEEQ  
00041 LCATYKLCHP EELVLLGHSL GIPKASLSGC SSQALQQTQC  
00081 LSQLHSLGCL YQGLLQALSG ISPALAPTL D LLQLDVANFA  
00121 TTIWQQMENL GVAPTQPTQ SAMPFTSAF QRRAGGV LAI  
00161 SYLQGPLETA RLALHHLA
```

**Source:** CHO

**Species:** Mouse

**Biological Activity:** ED<sub>50</sub> <0.02ng/ml, measured in a cell proliferation assay using NFS-60 cells.

**Molecular Weight:** 22-24 kDa, observed by 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 G-CSF remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, murine G-CSF should be stable up to 1 week at 4°C or up to 2 months at -20°C.