

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant G-CSF, Mouse

Catalog Number: BK0207-1mg

Source: CHO

Quantity: 1mg

### 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.

### Molecular Weight:

22-24 kDa, observed by reducing SDS-PAGE.

### Purity:

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

### Biological Activity:

ED50 <0.02ng/ml, measured in a cell proliferation assay using NFS-60 cells.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

VPLVTVSALPPSLPLPRS-  
FLLKSLEQVRKIQASGSVLEQLCATY-  
KLCHPEELVLLGHSLGIPKASLSGCSSQAL-  
QQTQCLSQLHSGLCCLYQGLLQALSGISPALAPTL  
DLLQLDVANFATTI-  
WQQMENLGVAPTVQPTQSAM-  
PAFTSAFQRRAGGVLAISYLQGFLETAR-  
LALHHLA

### 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 murine G-CSF remains stable up to 6 months at -80 °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.

### Usage:

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