

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant G-CSF, Mouse

Catalog Number: BK0207-50µg

Source: CHO

Quantity: 50µg

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-
QQTQCLSQLHSGLCLYQGLLQALSGISPALPTL
DLLQLDVANFATTI-
WQQMENLGVAPTVOPTQSAM-
PAFTSAFQRRAGGVLAISYLQGFLETAR-
LALHHLA

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O 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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