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# Animal-Free Recombinant Rat M-CSF
**Catalog # PBG10559**

## Specification

## Animal-Free Recombinant Rat M-CSF - Product Information

## Animal-Free Recombinant Rat M-CSF - Additional Information

### Description
M-CSF is a potent hematopoietic factor produced by a variety of cells including lymphocytes, monocytes, fibroblasts, endothelial cells, myoblasts and osteoblasts. It is a key regulator of cellular proliferation, differentiation, and survival of blood monocytes, tissue macrophages and their progenitor cells. M-CSF has been shown to play important roles in modulating dermal thickness, and male and female fertility. M-CSF is clinically used in the treatment of infection, malignancies and atherosclerosis. It facilitates hematopoietic recovery after bone marrow transplantation. The human is reactive in murine systems, but the murine molecule exhibits no activity on human cells. Recombinant rat M-CSF is a 18.1 kDa homodimeric protein containing two 155 amino acid polypeptide subunits.

### BiologicalActivity
The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells is ≤ 5.0 ng/ml, corresponding to a specific activity of ≥ 2 x 10<sup>5</sup> units/mg.

### Authenticity
Verified by N-terminal and Mass Spectrometry analyses (when applicable).

### Endotoxin
Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

### Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

### Storage
-20°C

### Precautions
Animal-Free Recombinant Rat M-CSF is for research use only and not for use in diagnostic or therapeutic procedures.

## Animal-Free Recombinant Rat M-CSF - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**Animal-Free Recombinant Rat M-CSF - Images**