

## 32-20271: Animal-Free Recombinant Murine M-CSF(Discontinued)

**Reactivity :** Mouse, Rat

**Alternative Name :** Macrophage Colony Stimulating Factor, CSF-1, MGI-IM

### Description

**Source:**E.coli

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 for blood monocytes, tissue macrophages, and their respective progenitor cells. M-CSF has been shown to play important roles in modulating dermal thickness and fertility. M-CSF is clinically used in the treatment of infection, malignancies and atherosclerosis. It facilitates hematopoietic recovery after bone marrow transplantation. Human M-CSF is reactive in murine systems, but the murine molecule exhibits no activity on human cells. Recombinant Murine M-CSF is a 36.4 kDa homodimeric protein consisting of two 156 amino acid polypeptide subunits.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Purity:  $\geq 98\%$  by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** MKEVSEHCSH MIGNGHLKVL QQLIDSQMET SCQIAFEFVD QEQLDDPVCY LKKAFFLVQD IIDETMRFKD  
NTPNANATER LQELSNLNS CFTKDYEEQN KACVRTFHET PLQLEKIKN FFNETKNLLE KDOWNIFTKNC  
NNSFAKCSSR DVVTKP

### Application Note

Determined by its ability to stimulate the proliferation of murine M-NFS-60 cells. The expected  $ED_{50}$  is  $\leq 1.0$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^6$  units/mg.