# **Recombinant Human M-CSF**

**CATALOG #**: 4237-10 10 μg

4237-50 50 μg 4237-1000 1 mg

LOT #: \_\_\_\_\_

SOURCE: E. coli

**PURITY:** >98% by SDS-PAGE and HPLC analyses

Endotoxin level is <0.1 ng per µg of M-CSF.

MOL. WEIGHT: 36.8 kDa

#### FORM:

Sterile filtered and then lyophilized from 5 mM Tris, pH 8.0 + 80 mM Arginine.

## **RECONSTITUTION:**

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-0.5 mg/ml. The solution can then be diluted into other aqueous buffers and stored at +4°C for 1 week and -20°C for future use.

#### STORAGE CONDITIONS:

The lyophilized M-CSF is best-stored desiccated below 0°C. Reconstituted human M-CSF should be stored in working aliquots at -20°C.

## DESCRIPTION:

Macrophage Colony Stimulating Factor (M-CSF) is produced by various cell types, including fibroblasts, microphages, and endothelial cells. M-CSF is involved in both the development and function of monocytes/microphages. Recombinant human M-CSF is a 36.8 kDa homodimeric protein containing two 159 amino acid polypeptide subunits.

#### **BIOLOGICAL ACTIVITY:**

The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of murine M-NSF-60 cells is  $\leq$ 5.0 ng/ml, corresponding to a specific activity of  $\geq$ 2 x 10<sup>5</sup> units/mg.

#### RELATED PRODUCTS:

rev. 12/11

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- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and SetApoptosis siRNA Vectors

## Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

## Cell Proliferation & Senescence

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- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

## Cell Damage & Repair

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- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

## Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
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- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

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- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
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