# PRODUCT DATA SHEET



Bioworld Technology,Inc.

# **Recombinant M-CSF, Mouse**

Catalog Number: BK0128-10µg Source: Escherichia coli. Quantity: 10µg

### **Description:**

Macrophage Colony Stimulating Factor (M-CSF) ,also known as CSF1, is a potent hematopoietic factor produced by a variety of cells including lymphocytes, monocytes, fibroblasts, endothelial cells, myoblasts and osteoblasts. The active form of the protein is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. It is a key regulator of cellular proliferation, differentiation, and survival of blood monocytes, tissue macrophages and their progenitor cells.M-CSF affects macrophages and monocytes in several ways, including stimulating increased phagocytic and chemotactic activity, and increased tumour cell cytotoxicity.M-CSF is clinically used in the treatment of infection, malignancies and atherosclerosis. It facilitates hematopoietic recovery after bone marrow transplantation. Recombinant mouse Macrophage Colony Stimulating Factor (M-CSF) produced in E.coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 156 amino acids each. A fully biologically active molecule, rmM-CSF has a molecular mass of 30 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

### **Molecular Weight:**

30 kDa, observed by reducing SDS-PAGE.

#### **Purity:**

> 95% as analyzed by SDS-PAGE.

## **Biological Activity:**

ED50< 3 ng/ml, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of  $> 3.3 \times 10^5$  units/mg.

## **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

### **Formulation:**

Lyophilized after extensive dialysis against 50mMTris,150mMNaCl, pH 8.0.

## **AA Sequence:**

MKEVSEHCSHMIGNGHLKVLQQLID-SQMETSCQIAFEFVDQEQLDDPVCYLKKAF-FLVQDIIDETMRFKDNTPNANATERLQELS-NNLNSCFTKDYEEQNKACVRTFHET-PLQLLEKIKNFFNETKNLLEKDWNIF-TKNCNNSFAKCSSRDVVTKP

#### **Endotoxin:**

< 0.2 EU/µg, determined by LAL method.

### **Reconstitution:**

Reconstituted in ddH2O at 100 µg/ml.

# **Storage:**

Lyophilized recombinant Mouse Macrophage Colony Stimulating Factor(M-CSF) remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, Mouse M-CSF should be stable up to 1 week at 4  $^{\circ}$ C or up to 2 months at -20  $^{\circ}$ C.

#### Heage

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