## PRODUCT DATA SHEET



Bioworld Technology,Inc.

# Recombinant M-CSF, Rat

Catalog Number: BK0129-10µg Source: Escherichia coli. Quantity: 10µg

## **Description:**

Macrophage-Colony Stimulating Factor (M-CSF), also known as Colony Stimulating Factor-1 (CSF-1), can stimulate the survival, proliferation and differentiation of mononuclear phagocytes, in addition to the spreading and motility of macrophages. M-CSF is mainly produced by monocytes, macrophages, fibroblasts, and endothelial cells. Interaction of M-CSF with its receptor, c-fms, has been implicated in the growth, invasion, and metastasis of several types of cancer, including breast and endometrial cancer.Recombinant Rat Macrophage Colony Stimulating Factor (M-CSF) produced in E.coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 155 amino acids each. A fully biologically active molecule, rrM-CSF has a molecular mass of 28 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

# **Molecular Weight:**

28 kDa, observed by reducing SDS-PAGE.

### **Purity:**

> 95% as analyzed by SDS-PAGE.

### **Biological Activity:**

ED50 < 5 ng/ml, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of  $> 2 \times 10^5$  units/mg.

# **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

#### **Formulation:**

Lyophilized after extensive dialysis against 50mM Tris, 150mM NaCl, pH 8.0.

## **AA Sequence:**

MEVSEHCSHMIGNGHLQILQQLIDSQMETA-CLIEYKFVDQEQLDDPVCYLKKAFVLVQVII-EETMRFKDNTPNANATERLQELSMKLNSCF-IKDYKEQNEACVQTYKESPLRLLEKIKNFFNETK NFLEKDWNIFSKNCNDSLAKCSSRDVVTKP

#### **Endotoxin:**

< 0.2 EU/µg, determined by LAL method.

### **Reconstitution:**

Reconstituted in ddH2O at 100 µg/ml.

### **Storage:**

Lyophilized recombinant Rat Macrophage Colony Stimulating Factor(M-CSF) remains stable up to 6 months at -80  ${\mathbb C}$  from date of receipt. Upon reconstitution, Rat M-CSF should be stable up to 1 week at 4  ${\mathbb C}$  or up to 3 months at -20  ${\mathbb C}$ .

#### Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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