## PRODUCT DATA SHEET



Bioworld Technology,Inc.

# Recombinant M-CSF, Human

Catalog Number: BK0127-100µg Source: Escherichia coli. Quantity: 100µg

### **Description:**

Macrophage Colony-Stimulating Factor 1 (M-CSF), involved especially in monocytopoiesis,[1]is a hematopoietic growth factor. In mammals, it exits three isoforms, which invariably share an N-terminal 32-aa signal peptide, a 149-residue growth factor domain, a 21-residue transmembrane region and a 37-aa cytoplasmictail[2]. The biological activity of human M-CSF is maintained within the 149-aa growth factor domain[3], and it is only active in the disulfide-linked dimeric form[4]. which bonded is Cvs63.Recombinant human Macrophage Colony-Stimulating Factor 1 (rhM-CSF) produced in E.coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 159 amino acids each. A fully biologically active molecule, rhM-CSF has a molecular mass of 28 kDaanalyzed by non-reducing SDS-PAGE and is obtained by proprietary refolding and chromatographic techniques at GenScript.

## **Molecular Weight:**

 $28\ kDa,$  observed by non-reducing SDS-PAGE.

#### **Purity**:

> 95% as analyzed by non-reducing SDS-PAGE.

# **Biological Activity:**

ED50 of 1 - 3 ng/ml, measured by cell proliferation assay of M-NFS-60, corresponding to a specific activity of  $3.3 \times 10^5$ -1  $\times 10^6$  units/mg.

## **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against 50 mM Tris-HCl, pH 8.0.

## **AA Sequence:**

MEEVSEYCSHMIGSGHLQSLQRLID-SQMETSCQITFEFVDQEQLKDPVCYLK-KAFLLVODIMEDTMRFRD-

NTPNAIAIVQLQELSLRLKSCFTKDYEEHDKACV RTFYET-

PLQLLEKVKNVFNETKNLLDKDWNIFSKNCNNS FAECSSQGHERQSEGS

### **Endotoxin:**

<1 EU/µg, determined by LAL method.

### **Reconstitution:**

Reconstituted in ddH2O or PBS or Tris-HCl, pH 8.0 at  $100 \mu g/ml$ .

#### **Storage:**

Lyophilized recombinant human Macrophage Colony-Stimulating Factor 1 (rhM-CSF) remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, rhM-CSF should be stable up to 2 weeks at 4  $^{\circ}$ C or up to 3 months at -20  $^{\circ}$ C.

#### Usage

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