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## **Recombinant human M-CSF protein**

Catalog Number: ATGP0432

### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

33-190aa

#### UniProt No.

P09603

#### **NCBI Accession No.**

NP 757351.2

#### **Alternative Names**

Macrophage colony stimulating factor, CSF1, Macrophage colony stimulating factor Colony stimulating factor 1, CSF 1, Lanimostim, M CSF, Macrophage Colony Stimulating Factor 1, MCSF, MGC31930.

### **PRODUCT SPECIFICATION**

### **Molecular Weight**

20.7 kDa (179aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) 2mM DTT, 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

## **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

## Tag

His-Tag

## **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

Macrophage colony stimulating factor (M-CSF), as known as CSF-1, one of the hematopoietic growth factors that regulate the growth and differentiation of blood cells. This protein is produced by monocytes, granulocytes, endothelial cells, and fibroblasts. It stimulates the formation of macrophage colonies, enhances antibody-



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dependent, cell-mediated cytotoxicity by monocytes and macrophages, and inhibits bone resorption by osteoclasts. Recombinant human M-CSF, fused to His-tag at N-terminus, was expressed as insoluble protein aggregate in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer..

## **Amino acid Sequence**

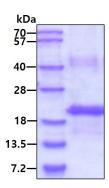
<MGSSHHHHHH SSGLVPRGSH M>EEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD KACVRTFYET PLQLLEKVKN VFNETKNLLD KDWNIFSKNC NNSFAECSSQ DVVTKPDCN

#### **General References**

Wei S., et al. (2006). J Leukoc Biol. 80(6):1445-53. Woo KM., et al. (2002). Exp Mol Med. 34(5):340-6.

## **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

