

# Recombinant human M-CSF protein

Catalog Number: ATGP0432

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

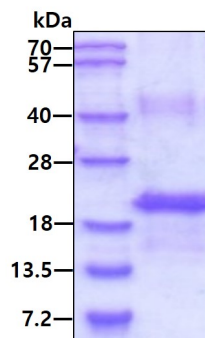
<MGSSHHHHHH SSGLVPRGSH M>EEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY  
LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD KACVRTFYET PLQLLEKVKN VFNETKNLLD  
KDOWNIFSKNC NNSFAECSSQ DVVTKPDCN

## 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