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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

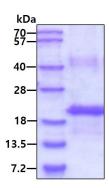
<MGSSHHHHHH SSGLVPRGSH M>EEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD KACVRTFYET PLQLLEKVKN VFNETKNLLD KDWNIFSKNC NNSFAECSSQ DVVTKPDCN

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

