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# **Recombinant mouse M-CSF protein**

Catalog Number: ATGP3904

## **PRODUCT INFORMATION**

## **Expression system**

Baculovirus

#### **Domain**

33-187aa

#### UniProt No.

P07141

## **NCBI Accession No.**

NP 031804

#### **Alternative Names**

M-Csf, Macrophage colony-stimulating factor 1, CSF-1, MCSF, Csf1, C87615, MCSF, op, Processedmacrophage colony-stimulating factor 1

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

19.1 kDa (164aa)

## Concentration

1mg/ml (determined by absorbance at 280nm)

### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

## **Purity**

> 90% by SDS-PAGE

## **Endotoxin level**

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

## **Biological Activity**

Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is  $\leq 4$ ng/ml.

# Tag

His-Tag

# **Application**

SDS-PAGE, Bioactivity

## **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.



# **Recombinant mouse M-CSF protein**

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## **BACKGROUND**

## **Description**

M-CSF, also known as macrophage colony-stimulating factor 1 isoform 1, is 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, enhancesantibody-dependent, cell-mediated cytotoxicity by monocytes and macrophages, and inhibits bone resorption byosteoclasts. It plays an essential role in the regulation of survival, proliferation and differentiation ofhematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. This proteinpromotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and ininflammatory processes. Recombinant mouse M-CSF, fused to His-tag at C-terminus, was expressed in insect celland purified by using conventional chromatography techniques.

## **Amino acid Sequence**

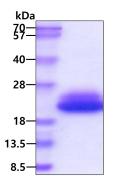
<ADP>KEVSEHC SHMIGNGHLK VLQQLIDSQM ETSCQIAFEF VDQEQLDDPV CYLKKAFFLV QDIIDETMRF KDNTPNANAT ERLQELSNNL NSCFTKDYEE QNKACVRTFH ETPLQLLEKI KNFFNETKNL LEKDWNIFTK NCNNSFAKCS SRDVVTKP<HH HHHH>

#### **General References**

Richardsen E., et al. (2018) Anticancer Res. 35(2):865-874. Braza MS., et al. (2018) Am J Transplant. 18:1247-1255.

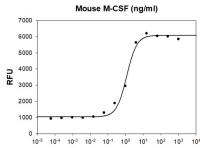
## **DATA**

#### **SDS-PAGE**



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

# **Biological Activity**



Mouse M-CSF stimulates cell proliferation of the M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 range is  $\leq$ 4 ng/ml.

