

M-CSF active protein

Recombinant M-CSF

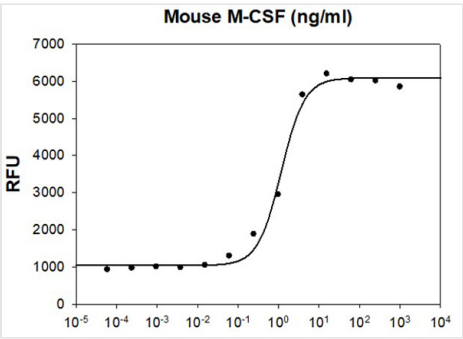
CATALOG # AAA48318	HOST Baculovirus	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

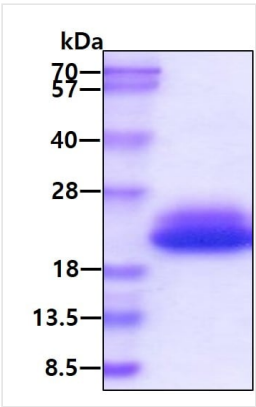
M-CSF; Recombinant M-CSF; M-Csf; Macrophage colony-stimulating factor 1; CSF-1; MCSF; Csf1; C87615; op; Processedmacrophage colony-stimulating factor 1; M-CSF active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	> 90% by SDS - PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	1mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	33-187aa
Sequence	KEVSE HCSHMIGNGH LKVLQQLIDS QMETSCQIAF EFVDQEQLDD PVCYLKKAFF LVQDIIDETM RFKDNTPNAN ATERLQELSN NLNSCFTKDY EEQNKACVRT FHETPLQLLE KIKNFFNETK NLLEKDWNI TKNCNNSFAK CSSRDVVTKP
Sequence Length	257
Applicable Applications for M-CSF active protein	Bioactivity, SDS-PAGE
Tag	His-Tag
Biological Activity	Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is 4 ng/ml.
Predicted nterm	Ala
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoidrepeated freezing and thawing cycles.



Bioactivity
Mouse M-CSF stimulates cell proliferation of the M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 range is



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

ADDITIONAL INFORMATION

Related Product Information for M-CSF active protein	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, enhances antibody-dependent, cell-mediated cytotoxicity by monocytes and macrophages, and inhibits bone resorption by osteoclasts. It plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. This protein promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and inflammatory processes. Recombinant mouse M-CSF, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for M-CSF active protein	Immunology
References	Richardsen E., et al. (2018) Anticancer Res. 35(2):865-874.; Braza MS., et al. (2018) Am J Transplant. 18:1247-1255.

NCBI AND UNIPROT INFORMATION

NCBI GI #	166064046
NCBI GeneID	12977
NCBI Accession #	NP_001107001.1
NCBI GenBank Nucleotide #	NP_001107001.1
UniProt Accession #	P07141
Molecular Weight	19.1kDa (164aa)
NCBI Official Full Name	macrophage colony-stimulating factor 1 isoform 2
NCBI Official Synonym Full Names	colony stimulating factor 1 (macrophage)
NCBI Official Symbol	Csf1
NCBI Official Synonym Symbols	op; Csfm; MCSF; C87615
NCBI Protein Information	macrophage colony-stimulating factor 1
UniProt Protein Name	Macrophage colony-stimulating factor 1
UniProt Gene Name	Csf1
UniProt Synonym Gene Names	Csfm; CSF-1; MCSF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/baculovirus-active-protein/m-csf/48318>