

CSF-1/M-CSF recombinant protein

Recombinant Mouse CSF-1/M-CSF Protein

CATALOG #
AAA283357

HOST
HEK293 cells

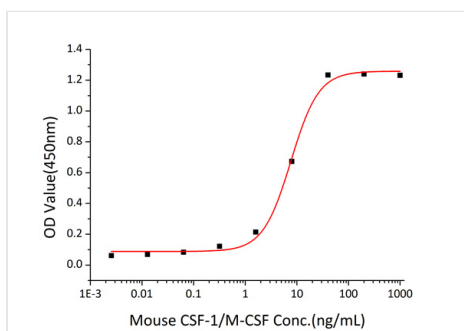
PRODUCT SYNONYMS

CSF-1/M-CSF; Recombinant Mouse CSF-1/M-CSF Protein; MCSF; M-CSF; CSF-1; Lanimostim; CSF1; CSF-1/M-CSF recombinant protein

PRODUCT SPECIFICATIONS

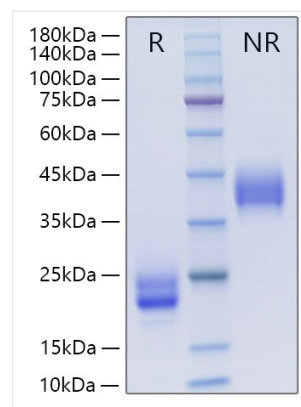
Host	HEK293 cells
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH7.4.
Sequence	MTARGAAGRC PSSTWLGSRL LLVCLLSRS IAKEVSEHCS HMIGNHGLKV LQLIDSQME TSCQIAFEFV DQEQLDDPVC YLKKAFFLVQ DIIDETMRFK DNTPNANATE RLQELSNNLN SCFTKDYEEO NKACVRTFHE TPLQLLEKIK NFFNETKNLL EKDNWIFTKN CNNSFAKCSS RDVVTKP
Species	Mouse
Endotoxin	<0.01 EU/ug of the protein by LAL method.
Bio-Activity	Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED ₅₀ for this effect is 3.76-15.16ng/mL, corresponding to a specific activity of $6.6 \times 10^4 \sim 2.65 \times 10^5$ units/mg.
Preparation and Storage	Store at -20 degree C. Store the lyophilized protein at -20 degree C to -80 degree C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.

IMAGES



Application Data

Recombinant Mouse CSF-1/M-CSF stimulates cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED₅₀ for this effect is 3.76-15.16 ng/mL, corresponding to a specific activity of $6.6 \times 10^4 \sim 2.65 \times 10^5$ units/mg.



SDS-PAGE

Recombinant Mouse CSF-1/M-CSF Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions ?showing single bands at 20-25 kDa and 35-45 kDa, respectively.

ADDITIONAL INFORMATION

Related Product Information for CSF-1/M-CSF recombinant protein	Macrophage colony-stimulating factor 1, also known as CSF-1, M-CSF, is a single-pass membrane protein which is disulfide-linked as a homodimer or heterodimer. Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. M-CSF/CSF-1 is known to facilitate monocyte survival, monocyte-to-macrophage conversion, and macrophage proliferation. M-CSF/CSF-1 is a secreted cytokine which influences hemopoietic stem cells to differentiate into macrophages or other related cell types. It binds to the Colony stimulating factor 1 receptor. M-CSF/CSF-1 may also be involved in development of the placenta. The active form of M-CSF/CSF-1 is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. M-CSF/CSF-1 induces cells of the monocyte/macrophage lineage. It also plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy. Upregulation of M-CSF/CSF-1 in the infarcted myocardium may have an active role in healing not only through its effects on cells of monocyte/macrophage lineage, but also by regulating endothelial cell chemokine expression.
Product Categories/Family for CSF-1/M-CSF recombinant protein	Cytokines & Cytokine receptors ; Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	166064046
NCBI GeneID	12977
NCBI Accession #	NP_001107001.1
NCBI GenBank Nucleotide #	NM_001113529.1
UniProt Accession #	P07141; Q3U395; Q8R3C8
UniProt Protein Name	Macrophage colony-stimulating factor 1
UniProt Gene Name	Csf1
UniProt Synonym Gene Names	Csfm; CSF-1; MCSF
UniProt Entry Name	CSF1_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/csf1-recombinant-protein-hek293-cells/283357>