

M-CSF Active Protein | CSF1 active protein

M-CSF Protein, Human, Recombinant

CATALOG #
AAA257992

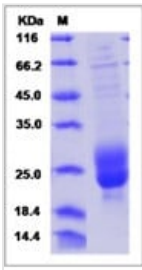
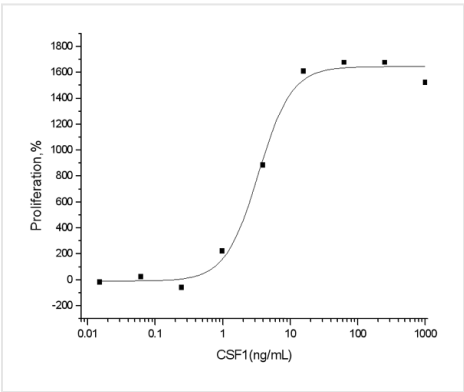
HOST
HEK293 Cells

PRODUCT SYNONYMS

M-CSF; M-CSF Protein; Human; Recombinant; Human M-CSF/CSF-1 Protein; CSF-1 Protein; MCSF Protein; colony stimulating factor 1 (macrophage); CSF1 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>85% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Asn19 0
Species	Human
Activity	Measured in a cell proliferation assay using M?NFS?60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is typically 1.6-6.3ng/mL.
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Glu 37
Tag	Native
Protein Construction	A DNA sequence encoding the human CSF1 (NP_757349.1)(Met1-Asn190) was expressed with an initial Met.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is typically 1.6-6.3 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for CSF1 active protein	Background: Macrophage colony-stimulating factor 1, also known as CSF-1, M-CSF, Lanimostim and CSF1, 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.
References	Pandit J. et al., 1992, Science. 258: 1358-62. Tokai M. et al., 2000, J Bacteriol. 182 (10): 2865-8. Fan X. et al., 2001, Am J Physiol Endocrinol Metab. 280 (1): E103-11. Frangogiannis NG. et al., 2003, Am J Physiol Heart Circ Physiol. 285 (2): H483-92. Cupp JS. et al., 2007, Am J Surg Pathol. 31 (6): 970-6.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27262663
NCBI GeneID	1435
NCBI Accession #	NP_757349.1
NCBI GenBank Nucleotide #	NM_172210.2
Molecular Weight	29,215 Da
NCBI Official Full Name	macrophage colony-stimulating factor 1 isoform b
NCBI Official Synonym Full Names	colony stimulating factor 1 (macrophage)
NCBI Official Symbol	CSF1
NCBI Official Synonym Symbols	MCSF; CSF-1
NCBI Protein Information	macrophage colony-stimulating factor 1; lanimostim

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.

