

M-CSF Active Protein | CSF1 active protein

M-CSF Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258231

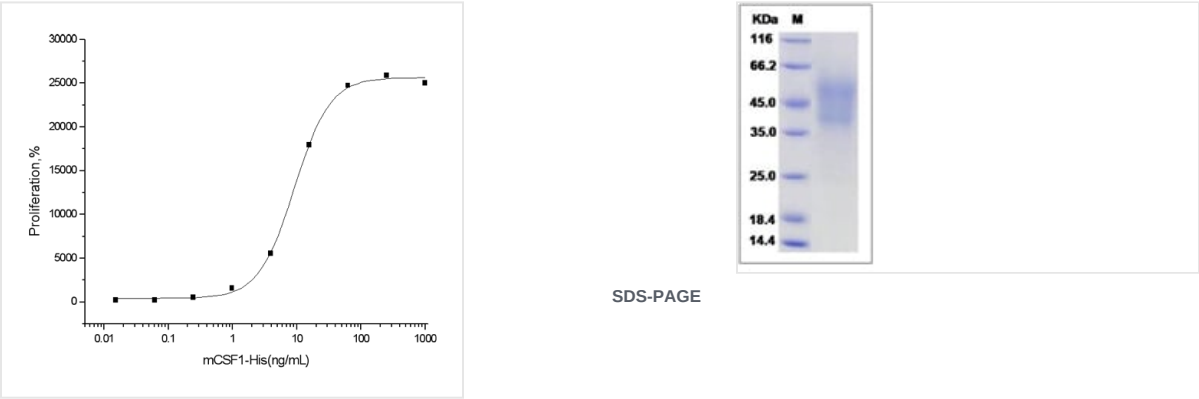
HOST
HEK293 Cells

PRODUCT SYNONYMS

M-CSF; M-CSF Protein; Mouse; Recombinant (His Tag); Mouse M-CSF/CSF-1 Protein (His Tag); C87615 Protein; Csfm Protein; MCSF Protein; op Protein; colony stimulating factor 1 (macrophage); CSF1 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% 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-Glu26 2
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Lys 33
Tag	C-His
Protein Construction	A DNA sequence encoding the mouse CSF1 (P07141-1)(Met1-Glu262) was expressed with a C-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Immobilized mouse CSF1-His at 10ug/ml (100uL/well) can bind mouse CSF1R-Fch. The EC50 of mouse CSF1R-Fch is 0.04-0.1ug/ml. 2. Measured in a cell proliferation assay using M?NFS?60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is typically 2-10ng/mL.
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.



Application Data
Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is typically 2-10 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 #	166064046
NCBI GeneID	12977
NCBI Accession #	NP_001107001.1
NCBI GenBank Nucleotide #	NM_001113529.1
UniProt Accession #	P07141; Q3U395; Q8R3C8
Molecular Weight	29,353 Da
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; osteopetrosis
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/hek293-cells-csf1-active-protein/m-csf/258231>