

M-CSF active protein

Human M-CSF

CATALOG # AAA79123	HOST E Coli	REACTIVITY Human
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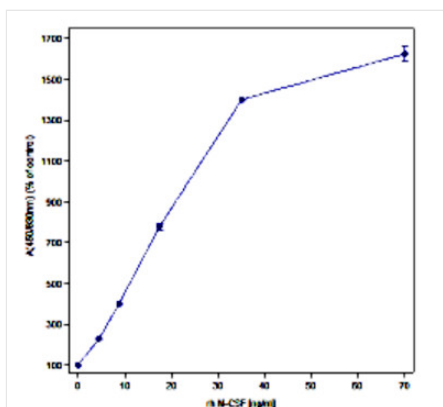
PRODUCT SYNONYMS

M-CSF; Human M-CSF; Recombinant Human M-CSF; M-CSF active protein

PRODUCT SPECIFICATIONS

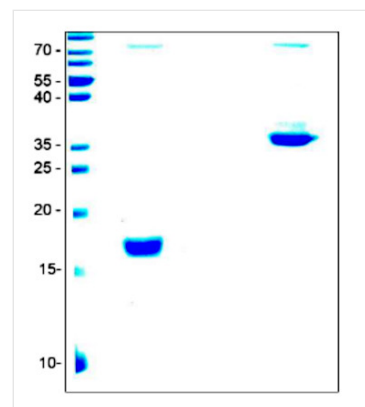
Host	E Coli
Reactivity	Human
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Lyophilized in PBS
Sequence	MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD KACVRTFYET PLQLLEKVKV VFNETKNLLD KDOWNIFSKNC NNSFAECSSQ GHERQSEGS
Sequence Length	554
Endotoxin Level	< 0.1 ng/ug of protein (<1 EU/ug)
Length (aa)	159 (monomer)
Result by N-terminal sequencing	MEEVS
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in water to a concentration not less than 100 ?g/ml. This solution can be stored for about 2 weeks. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Preparation and Storage	Lyophilized M-CSF although stable at room tempeture for 3 weeks, should be stores desiccated below -18°C. Upon reconstitution M-CSF can be stored at 4°C for about 2 weeks and for future use below -18°C.

IMAGES



Application Data

Fig. 2: Dose-dependent stimulation of cell proliferation in NFS60 cells by recombinant human M-CSF. Values are the means ($\pm$ SD) of triplicate determinations and expressed as percentage of control.



SDS-PAGE

Fig. 1: SDS-PAGE analysis of recombinant human M-CSF. Samples were loaded in 18% SDS-polyacrylamide gel under reducing and non-reducing conditions and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for M-CSF active protein	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. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy. Macrophage Colony Stimulating Factor Human Recombinant produced in E. coli is a disulfide linked homodimer, non-glycosylated, polypeptide chain containing 2 x 159 amino acids and having a total molecular mass of 36.8 KD. MCSF is purified by proprietary chromatographic techniques.
Product Categories/Family for M-CSF active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	27262661
NCBI GeneID	1435
NCBI Accession #	NP_000748.3
NCBI GenBank Nucleotide #	NM_000757.5
UniProt Accession #	P09603; Q13130; Q14086; Q14806; Q5VVF3; Q5VVF4; Q9UQR8; A8K6J5
Molecular Weight	37.1 kDa (Dimer)
NCBI Official Full Name	macrophage colony-stimulating factor 1 isoform a
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
UniProt Protein Name	Macrophage colony-stimulating factor 1
UniProt Gene Name	CSF1
UniProt Synonym Gene Names	CSF-1; M-CSF; MCSF
UniProt Entry Name	CSF1_HUMAN

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.