

Animal-Free M-CSF Protein, Human (His)

Cat. No.:	HY-P700137AF
Synonyms:	Macrophage Colony-Stimulating Factor 1; CSF-1; M-CSF; MCSF; Lanimostim; CSF1
Species:	Human
Source:	E. coli
Accession:	NP_757350.2 (E33-S190)
Gene ID:	1435
Molecular Weight:	18.5 kDa

PROPERTIES

AA Sequence	M E E V S E Y C S H M I G S G H L Q S L Q R L I D S Q M E T S C Q I T F E F V D Q E Q L K D P V C Y L K K A F L L V Q D I M E D T M R F R D N T P N A I A I V Q L Q E L S L R L K S C F T K D Y E E H D K A C V R T F Y E T P L Q L L E K V K N V F N E T K N L L D K D W N I F S K N C N N S F A E C S S Q G H E R Q S E G S
Biological Activity	Measure by its ability to induce proliferation in NFS-60 cells. The ED ₅₀ for this effect is <1 ng/mL. The specific activity of recombinant human M-CSF is approximately >2.5x10 ⁸ IU/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The M-CSF protein is a cytokine that plays a key role in regulating the production, differentiation, and function of macrophages. It exists in an active form as a disulfide-linked homodimer, which is found outside of cells. This active form is believed to be generated through the proteolytic cleavage of membrane-bound precursors. Additionally, this protein may be involved in the development of the placenta. Alternative splicing gives rise to multiple transcript variants. The M-CSF protein exhibits widespread expression in various tissues, including the placenta (RPKM 19.9), spleen (RPKM 19.7), and 25 other tissues.
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Caution: Product has not been fully validated for medical applications. For research use only.

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