

M-CSF Protein, Rat (HEK293)

Cat. No.:	HY-P70493
Synonyms:	Macrophage colony-stimulating factor 1; CSF-1; M-CSF; MCSF; CSF1
Species:	Rat
Source:	HEK293
Accession:	Q8JZQ0 (E33-R254)
Gene ID:	78965
Molecular Weight:	Approximately 46.0 kDa

PROPERTIES

AA Sequence	<div> <div>EVSEHC SHMI</div> <div>Q LDDPVCYLK</div> <div>ELSMKLNSCF</div> <div>NETKNFLEKD</div> <div>PKATPSSDLA</div> <div>LLPSDLPLRI</div> </div> <div> <div>GNGHLQILQQ</div> <div>KAFVLVQVII</div> <div>IKDYKEQNEA</div> <div>WNIFSKNCND</div> <div>SASPHQPPAP</div> <div>EDPGSAKQRP</div> </div> <div> <div>LIDSQMETAC</div> <div>EETMRFKDNT</div> <div>CVQTYKESPL</div> <div>SFAKCSSRDV</div> <div>SMAPLADLAW</div> <div>PR</div> </div> <div> <div>LIEYKFVDQE</div> <div>PNANATERLQ</div> <div>RLLEKIKNFF</div> <div>VTKPDCNCLY</div> <div>DDSQRTEGSS</div> </div>
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DESCRIPTION

Background	M-CSF Protein assumes a crucial role in orchestrating the regulation of survival, proliferation, and differentiation of hematopoietic precursor cells, particularly mononuclear phagocytes, including macrophages and monocytes. Its significance extends to promoting the release of pro-inflammatory chemokines, thereby playing a pivotal role in innate
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immunity and inflammatory processes. Moreover, M-CSF is a key player in the regulation of osteoclast proliferation and differentiation, influencing bone resorption and contributing to normal bone development. Beyond its impact on the skeletal system, M-CSF is indispensable for normal male and female fertility. The cytokine also plays a role in lipoprotein clearance and contributes to cellular processes such as reorganizing the actin cytoskeleton, regulating the formation of membrane ruffles, cell adhesion, and cell migration. M-CSF can exist in various forms, including a homodimer with two identical 150-200 kDa proteoglycan subunits, a heterodimer with a 150-200 kDa proteoglycan subunit and a truncated 43 kDa subunit, and a homodimer with two identical 43 kDa subunits. It interacts with its receptor CSF1R to exert its diverse functions.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA