M-CSF/CSF1 Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	M-CSF/CSF1, Recombinant Protein
Full Product Name	Recombinant Rat M-CSF/CSF1 Protein
Product Gene Name	M-CSF/CSF1 recombinant protein
Product Synonym Names	Macrophage colony-stimulating factor 1; CSF-1; M-CSF; MCSF; CSF1
Host	Human Cells
Form/Format	Lyophilized from a 0.2 mum filtered solution of PBS, pH 7.4.
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at < -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	Molecular Mass: 25.2 kDa Actual Protein Molecular Mass: 25.2 kDa
Sequence Positions	Gln33-Arg254
3D Structure	ModBase 3D Structure for Q8JZQ0
Species	Rat
Endotoxin	<1.0 EU per mug as determined by LAL test.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for M-CSF/CSF1 recombinant protein	Rat Macrophage colony-stimulating factor 1(MCSF, CSF1) is a single-pass type I membrane cytokine. It is a hematopoietic growth factor that plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. MCSF promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. It is involved in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone development which for normal male and female fertility. It promotes reorganization of the actin cytoskeleton, regulates formation of membrane ruffles, cell adhesion and cell migration. MCSF also plays a role in lipoprotein clearance.
Other Notes	Small volumes of M-CSF/CSF1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for M-CSF/CSF1 purchase	MBS2553672 is a recombinant protein targeting M-CSF/CSF1. Also known as Recombinant Rat M-CSF/CSF1 Protein. Host: Human Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for M-CSF/CSF1. It may not necessarily be applicable to this product.

NCBI GI #	28201782
NCBI GeneID	78965
NCBI Accession #	Q8JZQ0.1
UniProt Primary Accession #	Q8JZQ0

UniProt Related Accession #	Q8JZQ0
NCBI Official Full Name	Macrophage colony-stimulating factor 1
NCBI Official Synonym Full Names	colony stimulating factor 1
NCBI Official Symbol	Csf1
UniProt Protein Name	Macrophage colony-stimulating factor 1
UniProt Gene Name	Csf1
UniProt Synonym Gene Names	Csfm; CSF-1; MCSF
NCBI Protein Information	macrophage colony-stimulating factor 1
NCBI Summary for M-CSF/CSF1	plays a role in macrophage formation; involved in osteoclastogenesis and endochondral ossification [RGD, Feb 2006]
UniProt Comments for M-CSF/CSF1	Cytokine that plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. Promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. Plays an important role in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone development. Required for normal male and female fertility. Promotes reorganization of the actin cytoskeleton, regulates formation of membrane ruffles, cell adhesion and cell migration. Plays a role in lipoprotein clearance ().
Research Articles on M-CSF/CSF1	**1.** Studied the molecular basis for M-CSF-induced ROS generation and RANK expression in the early stages of osteoclastic differentiation. Generation of ROS by M-CSF was mediated by Nox2 and was required for the expression of RANK associated with ERK.
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