

Recombinant Mouse M-CSF

Cat. No. CSF1-40M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse M-CSF was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Mouse
Source	Yeast
Description	Macrophage colony-stimulating factor (M-CSF), also known as CSF-1, is a hematopoietic growth factor that is involved in the proliferation, differentiation, and survival of monocytes, macrophages, and bone marrow progenitor cells. M-CSF enhances expression of differentiation antigens and stimulates chemotactic, phagocytic and the killing activities of monocytes. M-CSF also stimulates production of several cytokines, including GM-CSF, G-CSF and IL-6 by priming monocytes. It also stimulates production and secretion of IL-8 and reactive nitrogen intermediates. In addition to the stimulation of hematopoiesis, M-CSF also stimulates differentiation and proliferation of osteoclast progenitor cells and cytotrophoblasts.
Form	Lyophilized
Molecular Mass	26.0 kDa
AA Sequence	AKEVSEHC SH MIGNGHLKVL QQLIDSQMET SCQIAFEFVD QEQLDDPVCY LKKAFFLVQD IIDETMRFKD NTPNANATER LQELSNNLNS CFTKDYEEQN KACVRTFHET PLQLLEKIKN FFNETKNLLE KDWNIFTKNC NNSFAKCSSR DVVTKPDCNC LYPKATPSSD PASASPHQPP APSMAPLAGL AWDDSQRTEG

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SSLLPSELPL RIEDPGSAKQ RPPRSTCQTL E (231)

Applications

The M-CSF protein can be used in cell culture, as a M-CSF ELISA Standard, and as a Western Blot Control.

Storage

-20 C

GENE INFORMATION
Gene Name

Csf1 colony stimulating factor 1 (macrophage) [*Mus musculus*]

Official Symbol

CSF1

Synonyms

CSF1; colony stimulating factor 1 (macrophage); macrophage colony-stimulating factor 1; osteopetrosis; op; Csfm; MCSF; C87615;

Gene ID

12977

mRNA Refseq

NM_001113529

Protein Refseq

NP_001107001

Pathway

Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response (BioCarta), organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Osteoclast differentiation, organism-specific biosystem; Osteoclast differentiation, conserved biosystem;

Function

cytokine activity; growth factor activity; macrophage colony-stimulating factor receptor binding; protein binding; protein homodimerization activity; protein homodimerization

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activity;

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