

Active Recombinant Mouse Csf1 Protein (156 aa)

Cat. No. Csf1-334C **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant mouse Macrophage Colony Stimulating Factor (M-CSF) produced in E. coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 156 amino acids each. A fully biologically active molecule, rmM-CSF has a molecular mass of 30 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.

Species Mouse

Source E.coli

ProteinLength 156

Description Macrophage Colony Stimulating Factor (M-CSF), also known as CSF1, is a potent hematopoietic factor produced by a variety of cells including lymphocytes, monocytes, fibroblasts, endothelial cells, myoblasts and osteoblasts. The active form of the protein is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. It is a key regulator of cellular proliferation, differentiation, and survival of blood monocytes, tissue macrophages and their progenitor cells. M-CSF affects macrophages and monocytes in several ways, including stimulating increased phagocytic and chemotactic activity, and increased tumour cell cytotoxicity. M-CSF is clinically used in the treatment of infection, malignancies and atherosclerosis. It facilitates hematopoietic recovery after bone marrow transplantation.

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Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 3 ng/mL, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of > 3.3 × 10 ⁵ units/mg.
Molecular Mass	30 kDa, observed by reducing SDS-PAGE.
AA Sequence	MKEVSEHCSHMIGNHGLKVLQQLIDSQMETSCQIAFEFVDQEQLDDPVCYLKKAFFL VQDIIDETMRFKDNTPNANATERLQELSNLNSCFTKDYEEQNKACVRTFHETPLQL LEKIKNFFNETKNLLEKDNIFTKNCNNSFAKCSSRDVVTKP
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Mouse Macrophage Colony Stimulating Factor(M-CSF) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Mouse M-CSF should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against 50mMTris, 150mMNaCl, pH 8.0.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.
GENE INFORMATION	
Gene Name	Csf1 colony stimulating factor 1 (macrophage) [<i>Mus musculus</i>]
Official Symbol	Csf1
Synonyms	CSF1; colony stimulating factor 1 (macrophage); macrophage colony-stimulating

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factor 1; osteopetrosis; op; Csfm; MCSF; C87615;

Gene ID

12977

mRNA Refseq


NM_001113529

Protein Refseq

NP_001107001

UniProt ID

P07141

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