Recombinant Mouse Csf1

Cat. No. Csf1-95M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Macrophage Colony Stimulating Factor produced in*E.coli*is a disulfide linked homodimer, non-glycosylated, polypeptide chain containing 2 x 156 amino acids and having a total molecular mass of 36.4 KD. MCSF is purified by proprietary chromatographic techniques.
Species	Mouse
Source	E.coli
Description	Granulocyte/Macrophage Colony-Stimulating Factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Lys-Glu-Val-Ser.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein (1 mg/ml) was lyophilized with 5mM Tris, pH 8.0 + 100 mM NaCl.

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Solubility	It is recommended to reconstitute the lyophilized M-CSF in sterile 18 MΩ-cm H2O not less than 100 g/ml, which can then be further diluted to other aqueous solutions.
Specific Activity	The ED50, calculated by the dose-dependant stimulation of the proliferation of murine M-NFS-60 indicator cells was found < 1 ng/ml, corresponding to a Specific Activity of 1 x 10^6 IU/mg.
Stability	Lyophilized M-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution MCSF should be stored at 4℃between 2-7 days and for future use below -18℃. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	Csf1 colony stimulating factor 1 (macrophage) [Mus musculus]
Synonyms	Csf1; colony stimulating factor 1 (macrophage); op; Csfm; CSF-1; M-CSF; C87615; colony stimulating factor 1; osteopetrosis; colony-stimulating factor-1
Gene ID	12977
mRNA Refseq	NM_001113529
Protein Refseq	NP_001107001
UniProt ID	P07141
Chromosome Location	3 F3; 3 51.0 cM
Pathway	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage

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Function	cytokine activity; growth factor activity; macrophage colony stimulating factor receptor binding; protein binding
PDB rendering based on 1hmc.	

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