

# Human M CSF Recombinant Protein



RPPB0749

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## Product Information    Protein Information

**Product SKU:**

RPPB0749

**Accession:**

P09603

**Host:**

Baculovirus infected  
Silkworm.

**Protein description:**

Macrophage Colony Stimulating Factor Human Recombinant produced in Baculovirus is a disulfide linked homodimer, glycosylated, polypeptide chain containing 2 x 149 amino acids and having a total molecular mass of 42 kDa. MCSF is purified by proprietary chromatographic techniques.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

CSF-1, Lanimostim, MCSF, MGC31930, M-CSF, Macrophage colony-stimulating factor 1, CSF1.

**Formulation:**

The lyophilized protein (1mg/ml) was lyophilized with 20mM phosphate buffer, 1% HSA and 3% manniol.

**Purity:**

Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized M-CSF in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized Macrophage Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MCSF should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

**Amino Acid Sequence:**

EEVSEYCSHM IGSGLHLSLQ RLIDSQMETS CQITFEFVDQ EQLKDPVCYL KKAFLLVQDI MEDTMRFRDN  
TPNAIAIVQL QELSLRLKSC FTKDYEEHDK ACVRTFYETP LQLEKVKNV FNETKNLLDK DWNIFSKNCN  
NSFAECSSQ.

**Biological Activity:**

The ED<sub>50</sub>, calculated by the dose-dependant stimulation of the proliferation of murine M-NFS-60 indicator cells was found < 3ng/ml, corresponding to a specific activity of less than 333,333.33units/mg.