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## Rec. Mouse Macrophage Stimulating Factor rmM-CSF

Product	Cat#	Package size
Rec. Mouse Macrophage Stimulating Factor	C6307.0002	2µg
Rec. Mouse Macrophage Stimulating Factor	C6307.0010	10µg
Rec. Mouse Macrophage Stimulating Factor	C6307.1000	1mg

### Synonyms:

CSF-1, Lanimostim, MCSF, M-CSF.

### Product 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.

Rec. mouse Macrophage Colony Stimulating Factor produced in *E.coli* is a disulfide linked homodimer, non-glycosylated, polypeptide chain of 2 x 159 amino acids and a total molecular mass of 36.4 KD.

### Source

*Escherichia coli*

### Biological activity

The ED50, calculated by the dose-dependent stimulation of the proliferation of murine M-NFS-60 indicator cells was found 0.91ng/ml corresponding to 1,098,901 U/mg.

### Purity

Greater than 98% by SDS-PAGE and HPLC analysis.

### Amino Acid Composition

MKEVSEHCSH MIGNGHLKVL QQLIDSQMET SCQIAFEFVD QEQLDDPVCY LKKAFFLVQD IIDETMRFKD NTPNANATER LQELSNLNS CFTKDYEEQN KACVRTFHET PLQLLEKIKN FFNETKNLE KDWNIFTKNC NNSFAKCSSR DVVTKP.

### Formulation

The protein was lyophilized with 0.5 x PBS, pH8.0. Sterile filtered white lyophilized (freeze-dried) powder.

### Stability

Lyophilized recombinant mouse M-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution of recombinant human M-CSF should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please avoid freeze-thaw cycles.**

### Reconstitution

It is recommended to reconstitute the lyophilized recombinant mouse M-CSF in sterile deionised water not less than 100µg/mL, which can then be further diluted to other aqueous solutions.

### Usage

This product is for research/laboratory usage only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.