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SCANDIC**

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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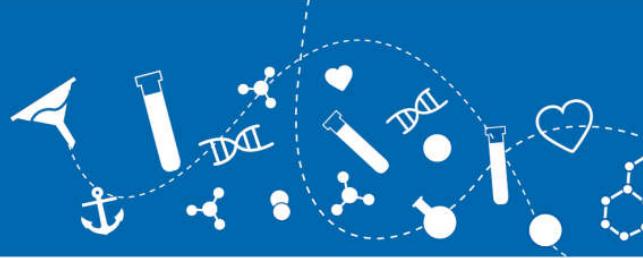
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## Macrophage Colony Stimulating Factor, human recombinant (rHuM-CSF)

**Catalog No:** 97239

**Lot No:** XXXXX

**Source:** Baculovirus infected silkworm

**Synonyms:** CSF-1, Lanimostim, MCSF, MGC31930, M-CSF, Macrophage colony-stimulating factor 1, CSF1

### Background

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.

### Description

Macrophage Colony Stimulating Factor human recombinant produced in *E. coli* 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.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

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

### Solubility

It is recommended to reconstitute the lyophilized M-CSF in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/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.

### Purity

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

### Amino Acid Sequence

EEVSEYCSHM IGSGLQLSQLQ RLIDSQMETC CQITFEFVDQ EQLKDPVCYL KKAFLLVQDI MEDTMRFRDN TPNAIAIVQL QELSLRLKSC FTKDYEEHDK ACVRTFYETP LQLLEKVKNV FNETKNLSDK DWNIFSKNCN NSFAECSSQ

### Activity

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



SIE HABEN DIE VISION,  
WIR HABEN DIE SUBSTANZ.



### Usage

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