9051 Mira Mesa Blvd, #910094
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# M CSF Rat

*Macrophage-Colony Stimulating Factor Rat Recombinant*
*GRF0254*

## Product Overview

| | |
|---|---|
| Name | M CSF Rat |
| **Description** | |
| Macrophage-Colony Stimulating Factor Rat Recombinant | |
| Accession (Primary) | Q8JZQ0 |
| **Synonyms** | |
| Macrophage colony-stimulating factor 1, CSF-1, MCSF, Csf1, Csfm. | |
| **Introduction** | |
| 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. MCSF induces cells of the monocyte/macrophage lineage. MCSF plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy. | |
| **Source** | |
| Escherichia Coli. | |
| **Physical Appearance** | |
| Sterile Filtered White lyophilized (freeze-dried) powder. | |
| **Formulation** | |
| Lyophilized from a sterile filtered aqueous solution containing 10mM Na 3 PO 4 , pH 7.5. | |
| **Stability** | |
| Lyophilized MCSF 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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. | |
| **Purity** | |
| Greater than 95.0% as determined by SDS-PAGE. | |
| **Amino acid sequence** | |
| MEVSEHCSHM IGNGHLQILQ QLIDSQMETA CLIEYKFVDQ EQLDDPVCYL KKAFVLVQVI IEETMRFKDN TPNANATERL QELSMKLNSC FIKDYKEQNE ACVQTYKESP LRLLEKIKNF FNETKNFLEK DWNIFSKNCN DSLAKCSSRD VVTKP. | |
| **Biological Activity** | |

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The activity as determined by dose-dependent induction of M-NFS-60 cell proliferation is 1.65 ng/ml. This corresponds to an expected specific activity of 6.1x10 5 units/mg.

**Solubility**

It is recommended to reconstitute the lyophilized MCSF in sterile 18M-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Precautions**

M CSF Rat is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( Q8JZQ0 )