

Active Recombinant Rat Csf1

Cat. No. Csf1-13R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MCSF Rat Recombinant produced in HEK-293 cells is a secreted protein (amino acids Glu33-Arg254). M-CSF is disulfide-linked homodimer containing 2 x 222 a.a chains.
Species	Rat
Source	HEK293
ProteinLength	33-254 a.a.
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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. The recombinant MCSF was lyophilized after extensive dialysis against PBS.
Bio-activity	The ED50 of 3-4ng/ml is measured by its ability to stimulate the proliferation of mouse M-NFS-60 cells.
Purity	Greater than 95.0% as determined by SDS-PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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.

Reconstitution It is recommended to reconstitute the MCSF in sterile PBS not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name [Csf1 colony stimulating factor 1 \(macrophage\) \[Rattus norvegicus \(Norway rat\) \]](#)

Official Symbol [Csf1](#)

Synonyms [Csf1](#); colony stimulating factor 1 (macrophage); macrophage colony-stimulating factor 1; CSF-1; MCSF; NP_076471.3; EC 2.7.10.1

Gene ID [78965](#)

mRNA Refseq [NM_023981](#)

Protein Refseq [NP_076471](#)

UniProt ID [Q8JZQ0](#)

Chromosome Location [2q34](#)

Pathway [Cytokine-cytokine receptor interaction](#); [Cytokines and Inflammatory Response \(BioCarta\)](#); [Hematopoietic cell lineage](#)

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Function

cytokine activity; growth factor activity; macrophage colony-stimulating factor receptor binding

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