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.

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Stability	Lyophilized MCSF although stable at room temperature for 3 weeks, should be stored desiccated below -18ºC. Upon reconstitution MCSF should be stored at 4ºC between 2-7 days and for future use below -18ºC. 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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