

Recombinant Monkey Colony Stimulating Factor 2 (granulocyte-macrophage)

Cat. No. CSF2-382M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant MonkeyCSF2 is a single non-glycosylated polypeptide chain containing 127 aminoacids.
Species	Monkey
Source	E.coli
Description	CSF2 was initially characterized as a growth factor that can support the in vitro colony formation of granulocyte-macrophage progenitors. It is produced by a number of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial cells and fibroblasts) in response to cytokine or immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, CSF2 is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic cells, CSF2 is a survival factor for and activates the effector functions of granulocytes, monocytes, macrophages, and eosinophils.
Form	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Molecular Weight	14.4 kDa
Sequence	APARSPSPGTQPWEHVNAIQ EARRLLNLSR DTAEMNKTV EVSSEMFDLQEPSCLRLE LYKQGLQGS TKLKGPLTMMASHYKQHCPP TPETSCATQITFQSFKENL KDFLLVIPFD CWEPVQE

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Purity	> 98% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED50 as calculated by the dose-dependant stimulation of the proliferation of human TF-1 cells is less than 0.1 ng/ml, corresponding to a Specific Activity of 1.0×10^7 IU/mg.
Endotoxin Level	< 0.1 ng/g of protein
Reconstitution	Centrifuge vial prior to opening. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^\circ\text{C}$. Further dilutions should be made in appropriate buffered solutions.
Storage	The lyophilized protein is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. After reconstitution, the protein is stable for 1 week at 2-4°C. For long term storage, aliquot and freeze at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	CSF2

GENE INFORMATION

Gene Name	CSF2 colony stimulating factor 2 (granulocyte-macrophage) [<i>Macaca mulatta</i>]
Synonyms	CSF2; colony stimulating factor 2 (granulocyte-macrophage); GM-CSF
Gene ID	574371
mRNA Refseq	NM_001032949
Protein Refseq	NP_001028121

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Pathway

Amoebiasis; Cytokine Signaling in Immune system; Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; HTLV-I infection; Hematopoietic cell lineage; Interleukin-3, 5 and GM-CSF signaling; Jak-STAT signaling pathway; Natural killer cell mediated cytotoxicity; Rheumatoid arthritis; Salmonella infection; T cell receptor signaling pathway

**PDB rendering
based on 2gmf.**

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