

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 initiallycharacterized as a growth factor that can support the in vitro colonyformation of granulocyte-macrophage progenitors. It is produced by a numberof different cell types (including activated T cells, B cells, macrophages,mast cells, endothelial cells and fibroblasts) in response to cytokine orimmune and inflammatory stimuli. Besides granulocyte-macrophage progenitors,CSF2 is also a growth factor for erythroid, megakaryocyte and eosinophilprogenitors. On mature hematopoietic cells, CSF2 is a survival factor for andactivates the effector functions of granulocytes, monocytes, macrophages, andeosinophils.
Form	Lyophilized from a0.2 µm filtered concentrated solution in PBS, pH 7.4.
Molecular Weight	14.4 kDa
Sequence	APARSPSPGTQPWEHVNAIQ EARRLLNLSR DTAAEMNKTV EVVSEMFDLQEPSCQLQTRLE LYKQGLQGSL TKLKGPLTMMASHYKQHCPP TPETSCATQIITFQSFKENL KDFLLVIPFD CWEPVQE

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Purity	> 98% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ 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 ≤-20°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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