

Recombinant Rhesus macaque Macaque Colony Stimulating Factor 3 (granulocyte)

Cat. No. CSF3-359R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus Macaque CSF3 is expressed in E. coli.
Species	Rhesus macaque
Source	Rhesus Macaque
Description	CSF3 is a pleiotropic cytokine best known for its specific effects on the proliferation, differentiation, and activation of hematopoietic cells of the neutrophilic granulocyte lineage. It is produced mainly by monocytes and macrophages upon activation by endotoxin, TNF α and IFN γ . Other cell types including fibroblasts, endothelial cells, astrocytes and bone marrow stromal cells can also secrete G-CSF after LPS, IL1 or TNF α activation. In addition, various carcinoma cell lines and myeloblastic leukemia cells can express CSF3 constitutively.
Form	Lyophilized from a 0.2 μ m sterile filtered solution of PBS, pH 7.4.
Purity	>98% by SDS-PAGE and HPLC analyses.
Sequence	TPLGPASSLP QSFLKCLEQ VRKIQGDGAALQEKLCATYK LCHPEELVLL RHSLGIPWAP LSSCPSQALQ LTGCLSQLHS SLFLYQGLLQ ALEGISPELS PTLDTLQLDIADFATTIWQQ MEDLGMAPAL QPTQGAMPAF TSAFQRRAGG VLVASHLQRF LELAYRVL RH LAQS
Molecular Weight	18.9 kDa

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Biological Activity	The ED ₅₀ as calculated by the dose-dependent stimulation of the proliferation of murine MNFS-60 cells is less than 0.1 ng/ml, corresponding to a Specific Activity of 1.0×10 ⁷ IU/mg.
Endotoxin	Less than 1 EU/μg of CSF3 as determined by LAL method.
Reconstitution	Centrifuge vial prior to opening. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. 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	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze-thaw cycles.
Official Symbol	CSF3
Pathways	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Jak-STAT signaling pathway; Malaria

GENE INFORMATION

Gene Name	CSF3 colony stimulating factor 3 (granulocyte) [Macaca mulatta]
Synonyms	CSF3; colony stimulating factor 3 (granulocyte)
Gene ID	698961
mRNA Refseq	XM_001095097

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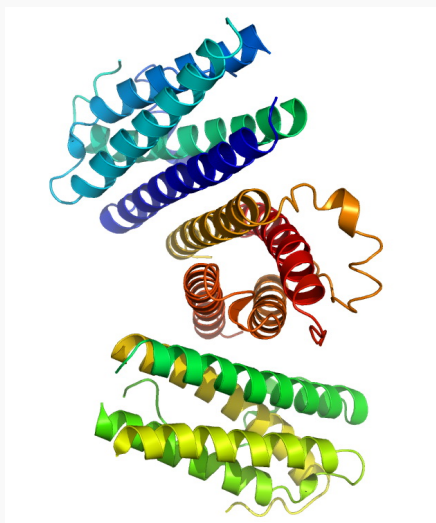
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Protein Refseq XP_001095097

Chromosome Location 16

Crystalstructure of 3 molecules of human CSF3. From PDB 1rhg.



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