

Growth Factor Data Sheet

GoldBio growth factors are manufactured for RESEARCH USE ONLY and cannot be sold for human

consumption!

Colony Stimulating Factor 3 (CSF3), previously known as granulocyte colony stimulating factor (G-CSF) is a pleiotropic cytokine and mainly produced by monocytes and macrophages upon activation by endotoxin, TNF- α and IFN- γ . Many cell types secreted this protein after LPS, IL-1 or TNF α activation, including fibroblasts, endothelial cells, astrocytes and bone marrow stromal cells. Various carcinoma cell lines and myeloblastic leukemia cells can express CSF3 constitutively. CSF3 is cytokine that acts in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytesmacrophages. In addition it may function in some adhesion or recognition events at the cell surface.

Catalog Number Product Name	1220-02 CSF3 (G-CSF), Rhesus macaque Recombinant Rhesus Monkey Colony Stimulating Factor 3 (granulocyte) Granulocyte Colony-Stimulating Factor, G-CSF Pluripoietin
Source	Escherichia coli
MW	~18.9 kDa (174 amino acids)
Sequence	TPLGPASSLP QSFLLKCLEQ VRKIQGDGAA LQEKLCATYK LCHPEELVLL RHSLGIPWAP LSSCPSQALQ LTGCLSQLHS SLFLYQGLLQ ALEGISPELS PTLDTLQLDI ADFATTIWQQ MEDLGMAPAL QPTQGAMPAF TSAFQRRAGG VLVASHLQRF LELAYRVLRH LAQS
Gene ID	<u>698961</u>
Purity	>98% by SDS and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED $_{50}$ as determined by a cell proliferation assay using murine NFS-60 cells is less than 0.05 ng/ml, corresponding to a specific activity of >2.0×10 7 IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.

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