



Technical Data Sheet

Recombinant Rhesus macaque G-CSF (rRhG-CSF)

Rhesus macaque Granulocyte Colony Stimulating Factor

GCSF 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 GCSF after LPS, IL1 or TNF α activation. In addition, various carcinoma cell lines and myeloblastic leukemia cells can express GCSF constitutively.

Catalog Number:	RC223-13
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 18.9 kDa, a single non-glycosylated polypeptide chain containing 174 amino acids.
Quantity:	2ug/10ug/1mg
AASequence:	TPLGPASSLPQSFLKCLEQVRKIQQGDGAALQEKLKATYKLCHEPEEL VLLRHSLGIP WAPLSSCPSQALQLTGCLSQLHSSFLYQGLLQALEGISPELSPTLDT LQLDIADFAT TIWQQMEDLGMAPALQPTQGAMPAFTSAFQRRAGGVLVASHLQRF LELAYRVLR HLAQS
Purity:	>98% by SDS-PAGE and HPLC analyses.
Biological Activity:	The ED50 as calculated by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells is less than 0.1 ng/ml, corresponding to a Specific Activity of 1.0×10^7 IU/mg.
Formulation:	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.
Endotoxin:	Less than 1EU/ μ g of rRhG-CSF as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or



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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:

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.**

Usage:

This material is offered by Bio Basic Inc. for research, laboratory or further evaluation purposes. **NOT FOR HUMAN USE.**