

## 32-6375: GCSF Rat

**Application :** Functional Assay

**Alternative Name :** Granulocyte colony stimulating factor, Protein Csf3, Csf3.

### Description

Source: Escherichia Coli.

Sterile Filtered White lyophilized (freeze-dried) powder.

GCSF is a cytokine that controls the production, differentiation, and function of granulocytes. The active protein is found extracellularly. Three transcript variants encoding three different isoforms have been found for the GCSF gene. Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. This csf induces granulocytes.

GCSF Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 195 amino acids and having a molecular mass of 21.5kDa. The G-CSF is purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 97.0% as determined by:(a)Analysis by RP-HPLC.(b)Analysis by SDS-PAGE.

**Content :** Lyophilized from a 0.2µm filtered solution in 5mM Sodium Citrate, pH 4.0.  
It is recommended to reconstitute the lyophilized GCSF in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Storage condition :** Lyophilized G-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GCSF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Amino Acid :** KKIPLLTVSS LPPSLPLPRS FLLKSLEQVR KIQARNTELL EQLCATYKLC HPEELVLFGH SLGIPKASLS  
SCSSQALQQT KCLSQLHSGL FLYQGLLQAL AGISSELAPT LDMLHLDVDN FATTIWQQME SLGVAPTVPQ  
TQSTMPIFTS AFQRRAGGVL VTSYLQSFLE TAHHALHHLP RPAQKHPES LFISI.

### Application Note

The ED50 determined by a cell proliferation assay using murine NFS-60 cells is less than 0.05ng/ml, corresponding to a specific activity of > 2.0Å<sup>2</sup> 107 IU/mg.