

# Human G CSF Recombinant Protein



RPPB0316

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## Product Information    Protein Information

**Product SKU:**

RPPB0316

**Accession:**

P09919

**Host:**

Escherichia Coli.

**Protein description:**

Granulocyte Colony Stimulating Factor Human Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain containing 175 amino acids and having a molecular mass of 18.8 KD. GCSF is purified by proprietary chromatographic techniques.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

CSF-3, MGI-1G, GM-CSF beta, Pluripoietin, Lenograstim, G-CSF, MGC45931, GCSF.

**Formulation:**

GCSF was lyophilized after extensive dialysis against 10mM sodium acetate buffer pH= 4.

**Purity:**

Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized GCSF in sterile 20mM AcOH not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized GCSF 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 Sequence:**

The sequence of the first five N-terminal amino acids of GCSF was determined and was found to be Met-Thr-Pro-Leu-Gly.

**Biological Activity:**

The ED50, calculated by the dose-dependant proliferation of murine NFS-60 indicator cells (measured by 3H-thymidine uptake) is < 0.1 ng/ml, corresponding to a Specific Activity of 100,000,000 IU/mg.