

Rat G-CSF

Synonyms: Granulocyte colony stimulating factor, Protein Csf3, Csf3.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
2 µg	1430.970.002		
10 µg	1430.970.010		
1 mg	1430.970.199		

Please enquire for bulk quantities and other vial sizes

Description

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.

- **Biological Activity** $\geq 2 \times 10^7$ IU/mg
- **Source** *E. Coli*
- **Purity** ≥ 97 % (SDS-PAGE, RP-HPLC)
- **Endotoxin level** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **Buffer** Lyophilized from a 0.2µm filtered solution in 5mM Sodium Citrate, pH 4.0*
- **Physical state** Sterile filtered, lyophilized

Biological Activity

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 $> 2.0 \times 10^7$ IU/mg.

Reconstitution

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.

Stability

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 avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

KKIPLLLTVSS LPPSLPLPRS FLLKSLEQVR KIQARNTPELL EQLCATYKLC HPEELVLFHG SLGIPKASLS
 SCSSQALQQT KCLSQLHSG LFLYQGLLQAL AGISSELAPT LDMLHLDVDN FATTIWQQME SLGVAPTVPQ
 TQSTMPIFTS AFQRRAGGVL VTSYLQSFLE TAHHALHHLP RPAQKHFPES LFISI

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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