NEUROMICS

Recombinant Human G-CSF Datasheet

Catalog Number: PR27066 **Product Type:** Recombinant Protein

Source: *E.coli*

Description/Molecular Mass: 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 G-CSF is purified by proprietary chromatographic techniques.

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

Protein Content: G-CSF quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm using the absorbency value of 0.815 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a standard solution of recombinant G-CSF as a Reference Standard.

Biological Activity: The ED_{50} calculated by the dose-dependant proliferation of murine NFS-60 indicator cells (measured by ^{3}H-thymidine uptake) is less then 0.1 ng/ml, corresponding to a Specific Activity of 1 x 10^{8} IU/mg.

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

Format: G-CSF was lyophilized after extensive dialysis against 10mM sodium acetate buffer pH= 4. G-CSF was lyophilized after extensive dialysis against 10mM sodium acetate buffer pH= 4.

Reconstitution: It is recommended to reconstitute the lyophilized Granulocyte Colony Stimulating Factor in sterile 18MΩ-cm H_2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Storage: Lyophilized Granulocyte Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution G-CSF 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 freeze-thaw cycles.

FOR RESEARCH USE ONLY

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