

Product: Granulocyte Colony Stimulating Factor, human
Catalog #: 11-GCSF-H
Amount: 5 µg

DESCRIPTION: Recombinant Human G-CSF (rHuG-CSF)
rHuG-CSF is a single, non-glycosylated, polypeptide chain containing 175 amino acids and having a molecular mass of 18.8 kDa
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Thr-Pro-Leu-Gly
Escherichia coli expression system

SOURCE: 18.8 kDa

MOLECULAR WEIGHT: > 98%, as determined by:

PURITY: (a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC
(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel

ENDOTOXIN: Less than 0.1 ng/µg (IEU/µg) of rHuG-CSF

DIMERS & AGGREGATES: Less than 1% as determined by silver stained SDS-PAGE gel analysis

PROTEIN CONTENT: Protein quantitation was carried out by 2 independent methods:
- 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 GENcomputer analysis program of protein sequences
- Analysis by RP-HPLC, using a standard solution of G-CSF as a Reference Standard

FORM: Purified, in 10mM sodium acetate buffer pH= 4

CONCENTRATION: 0.1 mg/ml

STORAGE: -20°C (aliquot), avoid freezing and thawing cycles

BIOLOGICAL ACTIVITY: rHuG-CSF is fully biologically active when compared to standard.
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 1 x 10⁸ IU/mg

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