

Product: Granulocyte Colony Stimulating Factor, murine
Catalog #: 11-GCSF-M
Amount: 5 µg

DESCRIPTION: Recombinant Murine G-CSF (rmG-CSF)
rmG-CSF is a single, non-glycosylated, polypeptide chain containing 179 amino acids and having a molecular mass of 19 kDa. The sequence of the first five N-terminal amino acids was determined and was found to be Met-Val-Pro-Leu-Val.

SOURCE: *Escherichia coli* expression system

MOLECULAR WEIGHT: 19 kDa

PURITY: > 95%, as determined by:
(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 rmG-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 0.51 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 mG-CSF as a Reference Standard

FORM: Purified, in 0.1% BSA

CONCENTRATION: 0.1 mg/ml

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

BIOLOGICAL ACTIVITY: rmG-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 < 0.05 ng/ml, corresponding to a Specific Activity of 2 x 10⁷ IU/mg

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