

Product: Granulocyte Macrophage Colony Stimulating Factor (GM-CSF), human
Catalog #: 11-GMCSF-H
Amount: 5 µg

DESCRIPTION: Recombinant Human GM-CSF (rHuGM-CSF)
rHuGM-CSF is a single, non-glycosylated, polypeptide chain containing 127 amino acids and having a molecular mass of 14477 Dalton.
The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro-Ala-Arg-Ser. N-terminal methionine has been completely removed enzymatically

SOURCE: *Escherichia coli* expression system

MOLECULAR WEIGHT: 14.477 kDa

PURITY: > 98%, 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 rHuGM-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 0.963 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 GM-CSF as a Reference Standard

FORM: Purified, in 2mM sodium phosphate buffer pH= 7.4 containing 0.1% BSA

CONCENTRATION: 0.1 mg/ml

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

BIOLOGICAL ACTIVITY: rHuGM-CSF is fully biologically active when compared to standard.
The ED50 as determined by the dose-dependant stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line) is < 0.1 ng/ml, corresponding to a Specific Activity of 11.1×10^6 IU/mg

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