

## 32-1255: mG CSF Recombinant Protein

**Alternative Name :** CSF3,MGI-1G,GM-CSF beta,Pluripoietin,G-CSF,GCSF.

### Description

Source : Escherichia Coli. Granulocyte Colony Stimulating Factor Mouse Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain containing 179 amino acids and having a molecular mass of 19kDa.G-CSF is purified by proprietary chromatographic techniques. Granulocyte Colony Stimulating Factor is a growth factor and/or cytokine produced by the endothelium, macrophages and a number of other immune cells. GCSF stimulates the bone marrow to produce granulocytes and also to stimulate the survival, proliferation, differentiation and function of neutrophil granulocyte progenitor cells and mature neutrophils.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	GCSF was lyophilized with no additives.
<b>Storage condition :</b>	Lyophilized Granulocyte Colony Stimulating Factor 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 prevent freeze-thaw cycles.
<b>Amino Acid :</b>	VPLVTVSAL PPSLPLPRSF LLKLEQVRK IQASGSVLE QLCATYKLCH PEELVLLGHS LGIPKASLSG CSSQALQQTQ CLSQLHSGLC LYQGLLQALS GISPALAPTL DLLQLDVANF ATTIWQQMEN LGVAPTVQPT QSAMPAFTSA FQRRAGGVLA ISYLQGFLET ARLALHHLA.

### Application Note

It is recommended to reconstitute the lyophilized Granulocyte Colony Stimulating Factor in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The ED<sub>50</sub> as determined by a cell proliferation assay using murine NFS-60 cells is < 0.05 ng/ml, corresponding to a Specific Activity of 2 x 10<sup>7</sup> IU/mg.

