



## Product Datasheet

<b>Product Name</b>	Granulocyte-Colony Stimulating Factor Mouse Recombinant
<b>Cata No</b>	CB500312
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	CSF3, MGI-1G, GM-CSF beta, Pluripoietin, G-CSF, GCSF.

### Description

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.

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 19 KD. G-CSF is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Biological Activity

The ED50 range=0.01-0.03 ng/mL, determined by the dose-dependant proliferation of mouse NFS-60cells. The optimal concentration for each specific application should be determined by an initial

dose-response assay.

### Purity

Greater than 95.0% as determined by:  
Analysis by RP-HPLC.  
Analysis by SDS-PAGE.

### Formulation

GCSF was lyophilized with no additives.

### Stability

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.**

### Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Val-Pro-Leu-Val.