

## Granulocyte-Colony Stimulating Protein

### Product Data Sheet

<b>Type:</b> Recombinant	<b>Cat. No.:</b>	
<b>Source:</b> Chinese Hamster Ovary Cells (CHO)	RP1763290002	(0.002 mg)
<b>Species:</b> Human	RP1763290010	(0.01 mg)
<b>Other names:</b> CSF-3, MGI-1G, GM-CSF beta, Pluripoietin, Filgrastim, Lenograstim, G-CSF, MGC45931, GCSF	RP1763291000	(1 mg)

### Description

Granulocyte Colony Stimulating Factor Human Recombinant produced in E.coli is a single, glycosylated, polypeptide chain containing 174 amino acids and having a molecular mass of 20 KD. G-CSF is purified by proprietary chromatographic techniques.

### Amino Acid Sequence

TPLGPASSLP QSFLLKCLEQ VRKIQGDGAA LQEKLCATYK LCHPEELVLL GHSLGIPWAP LSSCPSQALQ LAGCLS QLHS  
GLFLYQGLLQ ALEGISPELG PTLDTLQLDV ADFATTIWQQ MEELGMAPAL QPTQGAMPAF ASAFQRRAGG VLVASHLQSF  
LEVSYRVL RH LAQP

### Source

Chinese Hamster Ovary Cells (CHO)

### Purity

Greater than 97.0% as determined by:

- Analysis by RP-HPLC.
- Analysis by SDS-PAGE.

### Biological Activity

The ED50, calculated by the dose-dependant proliferation of murine NFS-60 indicator cells (measured by 3H-thymidine uptake) is < 0.7 ng/ml, corresponding to a Specific Activity of 1.27×10<sup>8</sup> IU/mg.

### Formulation

G-CSF was lyophilized from a concentrated (1mg/ml) solution containing Phosphate-Buffered Saline, pH 7.4

### Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

### Storage, Stability/Shelf Life

Lyophilized Granulocyte Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution G-CSF 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.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

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