

## G CSF Human, CHO

**Description:** Granulocyte Colony Stimulating Factor Human Recombinant produced in CHO cells is a single, glycosylated, polypeptide chain containing 174 amino acids and having a molecular mass of approximately 18 kDa. G-CSF is purified by proprietary chromatographic techniques.

**Catalog #:** CYP5-336

**Synonyms:** CSF-3, MGI-1G, GM-CSF beta, Pluripoietin, Filgrastim, Lenograstim, G-CSF, MGC45931, GCSF.

For research use only.

**Source:** Chinese Hamster Ovary Cells (CHO).

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** TPLGPASSLP QSFLKCLEQ VRKIQGDGAA LQEKLCAATYK  
LCHPEELVLL GHSGLIPWAP LSSCPSQALQ LAGCLSQLHS GLFLYQGLLQ ALEGISPELG  
PTLDTLQLDV ADFATTIWQQ MEELGMAPAL QPTQGAMPAF ASAFQRRAGG VLVASHLQSF  
LEVSRYVLRH LAQP.

**Purity:** Greater than 97.0% as determined by: a) Analysis by RP-HPLC. b) Analysis by SDS-PAGE.

### Formulation:

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

### Stability:

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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Solubility:

It is recommended to reconstitute the lyophilized Granulocyte Colony Stimulating Factor in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### Introduction:

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.

### Biological Activity:

The ED<sub>50</sub>, calculated by the dose-dependant proliferation of murine NFS-60 indicator cells (measured by 3H-thymidine uptake) is <math>0.07\text{ ng/ml}</math>, corresponding to a Specific Activity of 1.27 x 10<sup>8</sup> IU/mg.

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