

Recombinant Human Granulocyte Colony Stimulating Factor (rh G-CSF)

Synonyms: CSF-3, MGI-1G, GM-CSF beta, Pluripoietin, Filgrastim, Lenograstim

Introduction: G-CSF is a cytokine that controls the production, differentiation and function of granulocytes. The active protein is found extracellularly. Three transcript variants encoding three different isoforms have been found for this gene. Granulocyte/ macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation and function of 2 related white cell populations of the blood, the granulocytes and the monocytes- macrophages. This CSF induces granulocytes.

Description: Recombinant human G-CSF produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 174 amino acids and having a molecular mass of 18.7 kDa. rh G-CSF is purified by proprietary chromatographic techniques.

Source: Escherichia Coli

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilised from a 0.2 µm filtered solution in 25 mM sodium phosphate, 200 mM NaCl, pH 7.5. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh G-CSF in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh G-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh 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.

Purity: 95.0% as determined by SDS-PAGE.

Amino Acid Sequence: TPLGPASSLP QSFLKCLE QVRKIQQDGA ALQEKLCATY KLCHPEELVL LGHSLGIPWA PLSSCPSQAL QLAGCLSQLH SGLFLYQGLL QALEGISPEL GPTLDTLQLD VADFATTIWQ QMEELGMAPA LQPTQGAMPA FASAFQRRAG GVLVASHLQS FLEVSRYVLR HLAQP

Biological Activity: Calculated by the dose-dependant proliferation of murine NFS-60 indicator cells the ED50 is < 0.1 ng/ml.

Endotoxicity: The endotoxin level is less than 1 EU / µg determined by LAL method.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11343132
<i>medium</i>	10 µg	Cat.N°	11343133
<i>large</i>	50 µg	Cat.N°	11343135
<i>x-large</i>	250 µg	Cat.N°	11343137
<i>xx-large</i>	1000 µg	Cat.N°	11343138

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