

Recombinant Mouse Granulocyte Colony Stimulating Factor (rm G-CSF)

Synonyms: CSF3, MGI-1G, GM-CSF beta, Pluripoietin

Introduction: G-CSF is a growth factor produced by the endothelium, macrophages and a number of other immune cells. G-CSF 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.

Description: Recombinant mouse G-CSF produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 179 amino acids and having a molecular mass of 19kDa. rm G-CSF is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

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

Formulation: Lyophilized from a 0.22 µm filtered carrier free solution in 25 mM sodium phosphate pH 6.5 + 200 mM NaCl.

The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

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

Stability: Lyophilized rm G-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm 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: Greater than 95.0% as determined by SDS-PAGE.

Endotoxicity: The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method

Amino Acid Sequence: MVPLVTVSAL PPSLPLPRSF LLKSLEQVRK IQASGSVLE QLCATYKLCH
PEELVLLGHS LGIPKASLSG CSSQALQQTQ CLSQLHSGLC LYQGILLQALS GISPALAPTL DLLQLDVANF
ATTIWQQMEN LGVAPTQPT QSAMPAFTSA FQRRAGGVLA ISYLQGFLET ARLALHHLA

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

Biological Activity: The ED₅₀ range < 0.05 ng/ml determined by the dose- dependant proliferation of mouse NFS-60 indicator cells, corresponding to specific activity of 2x10⁷ IU/mg

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.

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| <i>small</i> | 2 µg | Cat.N° | 12343132 |
| <i>medium</i> | 10 µg | Cat.N° | 12343133 |
| <i>large</i> | 50 µg | Cat.N° | 12343135 |
| <i>x-large</i> | 250 µg | Cat.N° | 12343137 |
| <i>xx-large</i> | 1000 µg | Cat.N° | 12343138 |

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