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

G-CSF is a hematopoietic growth factor that stimulates the development of committed progenitor cells to neutrophils and enhances the functional activities of the mature end-cell. It is produced in response to specific stimulation by a variety of cells including macrophages, fibroblasts, endothelial cells and bone marrow stroma. G-CSF is being used clinically to facilitate hematopoietic recovery after bone marrow transplantation. Human and murine G-CSF are cross-species reactive.
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

Synonyms : CSF-3, MGI-1G, GM-CSFb, pluripoietin

Source: *Escherichia coli*

AA Sequence: MVPLVTVSAL PPSLPLPRSF LLKSLEQVRK IQASGSVLLE QLCATYKLCH PEELVLLGHS LGIPKASLSG CSSQALQQTQ CLSQLHSGLC LYQGLLQALS GISPALAPTL DLLQLDVANF ATTIWQQMEN LGVAPTVQPT QSAMPAFTSA FQRRAGGVLA ISYLQGFLET ARLALHHLA

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

Reconstitution: Reconstitute in sterile endotoxin free water not less than 100 µg/ml

Stability: The lyophilized protein is stable for at least 2 years at –20°C. Reconstituted rm G-CSF is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at –20°C. Avoid repeated freeze/thaw cycles.

Biological Activity: Determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells the ED50 is < 0.05 ng/ml, corresponding to a specific activity of > 2 x 10^7 units/mg.

Purity: 95% (verified by SDS-PAGE / silver stain)

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

Order N°: rm G-CSF+Size
available sizes: 2 µg, 10 µg, 50 µg

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