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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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GFM14 Recombinant Mouse G-CSF

Description

Granulocyte-Colony Stimulating Factor (G-CSF) is a cytokine that functions as a potent inducer of neutrophilic granulocyte proliferation, terminal differentiation, and activation. G-CSF synthesis occurs in monocyte, macrophage, epithelial, endothelial, and fibroblast cells after activation by bacterial endotoxins, Tumor Necrosis Factor α (TNF- α), Interleukin-1 (IL-1), or Interleukin-17 (IL-17). The functional activity of G-CSF is mediated through the granulocyte colony-stimulating factor receptor (G-CSF-R) to activate JAK/STAT and MAPK signal transduction pathways. G-CSF also promotes neurogenesis and inhibits neuronal apoptosis. Human and mouse G-CSF proteins are cross-reactive.

Length	179 aa
Molecular Weight	19.1 kDa
Source	E. coli
Accession Number	P09920
Purity	$\geq 95\%$ determined by reducing and non-reducing SDS-PAGE

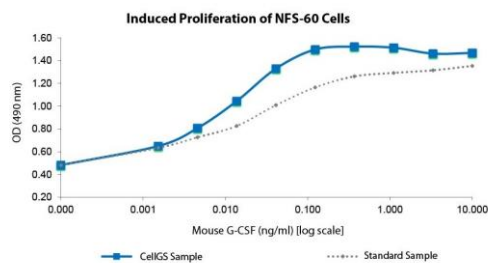
Specifications

Alternative Names	Granulocyte Colony Stimulating Factor, granulocyte colony-stimulating factor, CSF-3, CSF3, MGI-1G, GM-CSF β , GM-CSF β , pluripoiectin, colony stimulating factor 3 (granulocyte), lenograstim, filgrastim, GCSF2, MGC45931, C17orf33, chromosome 17 open reading frame 33, CSF3OS, MGI-1G
Biological Activity	Mouse G-CSF is fully biologically active when compared to standard. The activity is determined by the proliferation of NFS-60 cells and it is typically less than 50 $\mu\text{g}/\text{ml}$. This corresponds to an expected specific activity of 2×10^7 units/mg.
Endotoxin Level	≤ 1.00 EU/ μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium citrate, pH 3.0
AA Sequence	MVPLVTVSAL PPSLPLPRSF LLKSLEQVRK IQASGSVLE QLCATYKLCH PEELVLLGHS LGIPKASLSG CSSQALQQTQ CLSQLHSGLC LYQGILLQALS GISPALAPTL DLLQLDVANF ATTIWQQMEN LGVAPTQVPT QSAMPAFTSA FQRRAGGVLA ISYLQGFLET ARLALHHLA

Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Induced proliferation of NFS-60 cells assay for Mouse G-CSF. Cell proliferation was measured to calculate the ED50, which is as expected less than 50 $\mu\text{g}/\text{ml}$.