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## Recombinant human G-CSF protein, His

Catalog Number: bs-42107P

Concentration: >0.5mg/ml

AA Seq: 31-208/208

Predicted MW: 21.2

Tags: N-His

Activity: Not tested

Purity: >90% as determined by SDS-PAGE

Form: Lyophilized or Liquid

Storage: 20mM Tris (pH9.0).

Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.

**Background:** Granulocyte-colony stimulating factor (G-CSF) is a growth factor and an essential cytokine belonging to the CSF family of hormone-like glycoproteins that regulate haematopoietic cell proliferation and differentiation. G-CSF was isolated initially as a factor supporting the growth of colonies of granulocytes in soft agar cultures. Cells of the monocyte/macrophage lineage are among the most prominent sources of G-CSF, but this factor can also be produced by normal cells of mesodermal origin, including vascular endothelial cells, fibroblasts, and mesothelial cells. Production of G-CSF can be induced in vitro in these cells by a wide variety of stimulatory agents, including LPS, TNF, IL-1, IL-3, IL-4, and IFN-Gamma. G-CSF is likely to play a role in the basal regulation of neutrophil production, and also functions as a primary regulatory factor controlling the neutrophil response to inflammatory stimuli. Furthermore, G-CSF exhibits other biological activities besides the proliferative effects, since G-CSF appears to modulate the distribution of neutrophils and progenitor cells within the body.

### VALIDATION IMAGES

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The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.