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Recombinant Human G-CSF

Cat# HHM-GC

Product Specifications

- Expression of Human Proteins in Human Cells
- Extreme low Endotoxin
- High Purity
- Animal Free and Xeno Free
- Tag Free

Source: Human cells derived

Structure: Glycosylated monomer

Purity: >95% by SDS-PAGE

Endotoxin Level: <0.5EU/ug

Molecular Weight: 21-25kDa

Formulation: Lyophilized from a 0.2μm filtered solution in PBS without carrier protein

Activity Assay

The activity was measured by its ability to stimulate the proliferation of murine M-NFS-60 cells (Mouse Myeloid Leukemia indicator cell line).

Reconstitution

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -80°C under sterile conditions after reconstitution.

Protein Description

Granulocyte colony stimulating factor (G-CSF) is a hematopoietic growth factor belonging to the CSF family. G-CSF is mainly expressed in monocyte/ macrophage lineage. It is also expressed in cells of mesodermal origin, including vascular endothelial cells, fibroblasts, and mesothelial cells. G-CSF acts in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages.

References

Nagata S et al. (1986) Nature 319,415-418.

Shirafuji N et al. (1989) Exp Hematol. 17,116-119.