

Recombinant Human G-CSF

Cat. #: SGC-010

Product Specifications

- Expression of Human Proteins in Human Cells
- Extremely Low Endotoxin Level
- High Purity
- Animal Free and Xeno Free
- Tag Free

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.

Source: Derived from human cells

Size: 10 µg

Shipping: Ambient temperature

Structure: Glycosylated monomer

Purity: >95% by SDS-PAGE

Endotoxin Level: <0.5 EU/µg

Molecular Weight: 21-25 kDa

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

Activity Assay

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 and 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.

