

HumanKine[®] G-CSF (Recombinant Human)



| | | | |
|-----------------------|----------------------|----------|----------------|
| Animal Component-Free | Human cell expressed | Tag-Free | Endotoxin Free |
|-----------------------|----------------------|----------|----------------|

Product Description

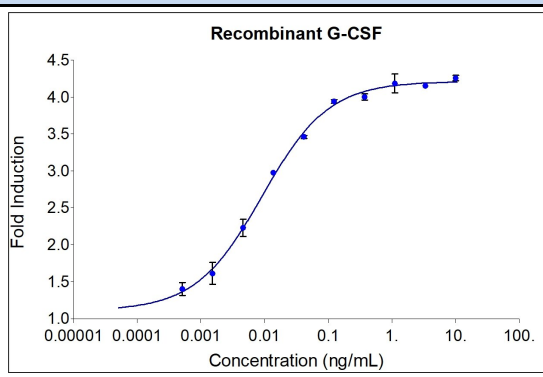
Animal-free Recombinant Human G-CSF is expressed in human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 21 to 25 kDa. This molecular mass is due to glycosylation, which is absent when this cytokine is expressed in E. coli. Glycosylation contributes to stability in cell growth media and other applications. It stimulates the growth of progenitor cells to neutrophils and enhances the functional activities of the mature end-cell. This cytokine is produced in a serum-free, chemically defined media.

| | |
|--------------------|---|
| Alternative Names | C17orf33, CSF3, Filgrastim, G CSF, GCSF, G-CSF, Lenograstim, Pluripoietin |
| Source | Human Embryonic Kidney cells (HEK293). HEK293-derived G-CSF protein |
| Species Reactivity | human,mouse |

Specifications

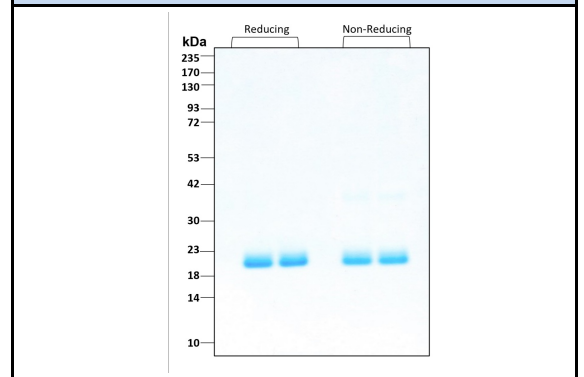
| Test | Method | Specification |
|----------------|---|-------------------------------------|
| Activity | Dose-dependent stimulation of the proliferation of murine M-NFS-60 cells (Mouse myeloid leukemia indicator cell line) | 0.009-0.05 ng/mL EC50 |
| Molecular Mass | SDS-PAGE | 21 to 25 kDa, monomer, glycosylated |
| Purity | SDS-PAGE | >95% |
| Endotoxin | LAL | <1 EU/μg |

Activity Data



Recombinant human G-CSF (HZ-1207) stimulates dose-dependent proliferation of the M-NFS-60 Mouse Myeloid Leukemia indicator cells line. Viable cell number was quantitatively assessed by PrestoBlue[®] Cell Viability Reagent. M-NFS-60 cells were treated with increasing concentrations of recombinant human G-CSF for 72 hours. The EC50 was determined using a 4-parameter non-linear

SDS-PAGE



| Preparation | |
|----------------------|---|
| Shipping Temperature | ambient temperature |
| Formulation | 1x PBS, See Certificate of Analysis for details |
| Reconstitution | Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). |

| Stability and Storage | Product Form | Temperature Conditions | Storage Time (From Date of Receipt) |
|------------------------------------|---------------------------|------------------------|-------------------------------------|
| | Lyophilized | -20°C to -80°C | Until Expiry Date |
| | Lyophilized | Room Temperature | 2 weeks |
| | Reconstituted as per CofA | -20°C to -80°C | 6 months |
| | Reconstituted as per CofA | 4°C | 1 week |
| Avoid repeated freeze-thaw cycles. | | | |

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Proteintech Group, Inc.
5500 Pearl Street, Suite 400 Rosemont, IL 60612
t: 1-888-478-4522; f: 1-312-455-8408
Email: proteintech@ptglab.com