HUMANZYME
HUMAN PROTEINS FROM HUMAN CELLS

PRODUCT DATA SHEET

Recombinant Human
G-CSF (Granulocyte - Colony Stimulating Factor)

Catalog # (Size): **HZ-1207 (10µg)** **HZ-1172 (100µg)** **HZ-1081 (1000µg)**

Product Description

- Endotoxin-free
- Animal-derived product free
- Available in Bulk
- High Potency for Hematopoietic Cell Growth
- Authentic Glycosylation

Xeno-free G-CSF^{HuXp} 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.

Typical Specifications

Species	Human
Expression	HEK293 Cell Expressed
Activity	Typically ≤ 0.1 ng/mL EC_{50}
Purity	>95%
Endotoxin	<1 EU/µg
Molecular Mass	21 to 25 kDa, monomer, glycosylated
Formulation	1x PBS

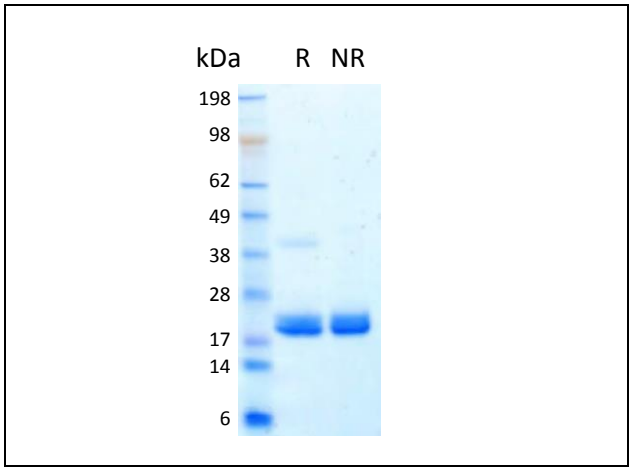
Purity Confirmation

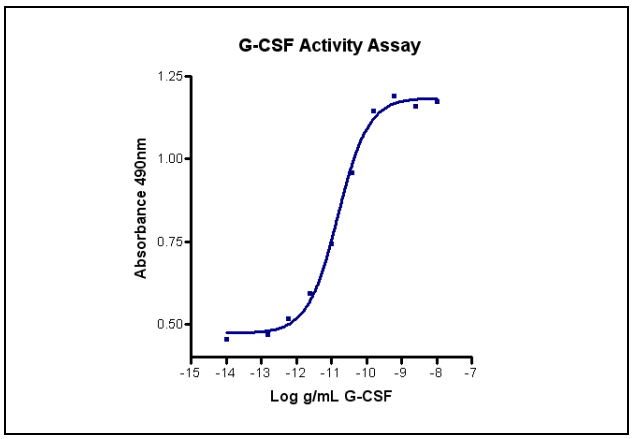
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

Activity Assay

The activity was determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells (Mouse Myeloid Leukemia indicator cell line).

All HumaXpress® HumanKine™ are animal-component-free and Xeno-free™





Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1x PBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

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