

Human G-CSF R/CD114 Protein

Cat. No. GSR-HM101

Description

Source	Recombinant Human G-CSF R/CD114 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu25-His627.
Accession	Q99062-1
Molecular Weight	The protein has a predicted MW of 68.29 kDa. Due to glycosylation, the protein migrates to 90-110 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

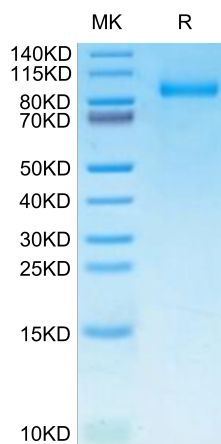
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The Granulocyte Colony-Stimulating Factor (G-CSF) receptor, a member of the hematopoietin cytokine receptor superfamily, functions as a homodimer and requires the recruitment of cytosolic protein tyrosine kinases (PTKs) to transduce its signal.

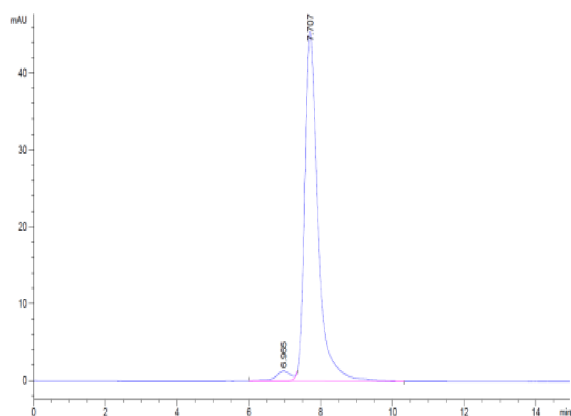
Assay Data

Bis-Tris PAGE



Human G-CSF R on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



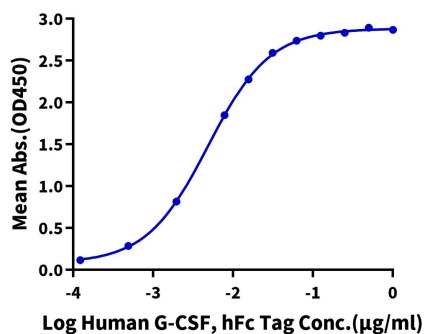
The purity of Human G-CSF R is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human G-CSF R, His Tag ELISA

0.1µg Human G-CSF R, His Tag Per Well



Immobilized Human G-CSF R, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human G-CSF, hFc Tag with the EC50 of 4.9ng/ml determined by ELISA (QC Test).