

# Human gp130 / CD130 / IL-6 R beta Protein, Fc Tag (MALS verified)

Catalog # ILT-H5254



BIOSYSTEMS  
**Acro**

## Synonym

IL6ST, gp130, CD130, IL-6RB, IL-6R-beta, CDw130

## Source

Human gp130 Protein, Fc Tag (ILT-H5254) is expressed from human 293 cells (HEK293). It contains AA Glu 23 - Glu 619 (Accession # [P40189-1](#)).

Predicted N-terminus: Glu 23

## Molecular Characterization

IL-6 R beta(Glu 23 - Glu 619) P40189-1	Fc(Pro 100 - Lys 330) P01857-1
---	-----------------------------------

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 94.3 kDa. The protein migrates as 110-140 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

## Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

**Please avoid repeated freeze-thaw cycles.**

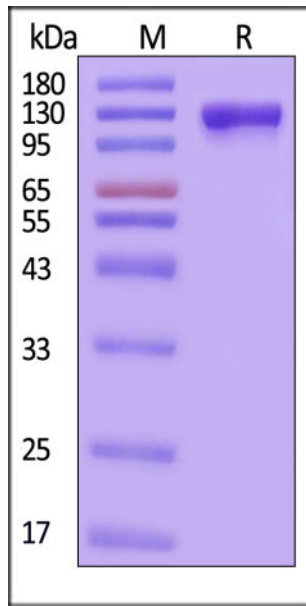
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

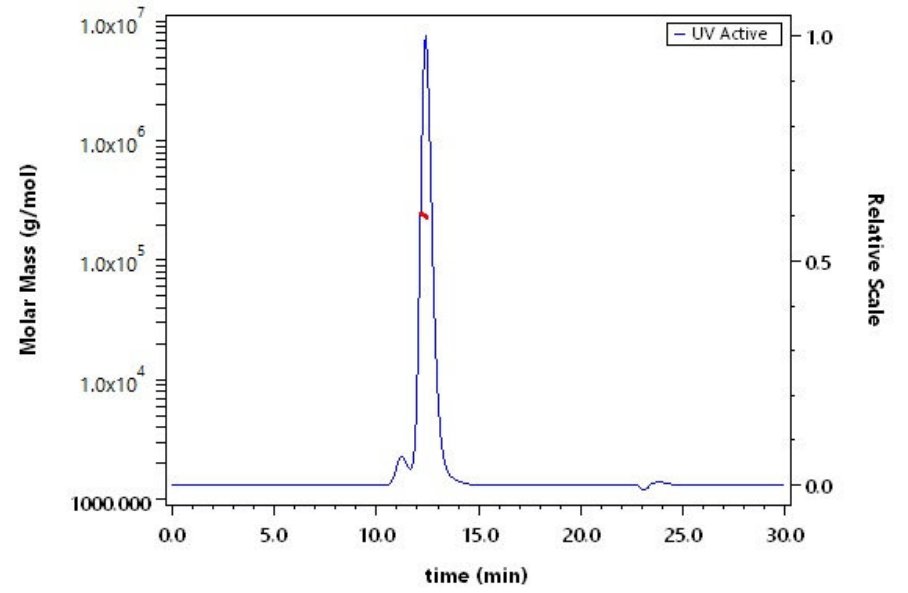
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



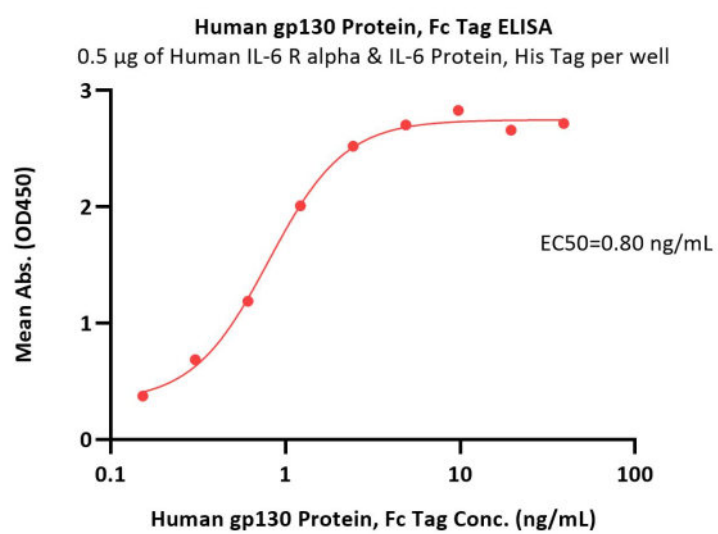
Human gp130 Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



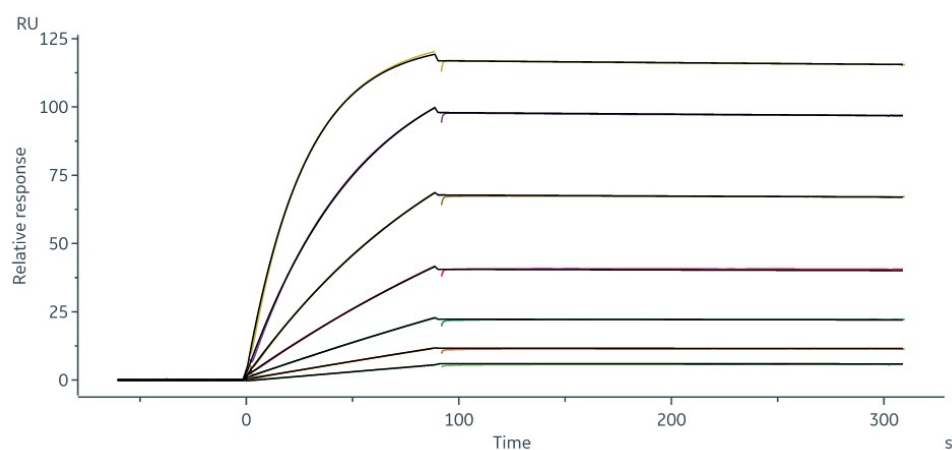
The purity of Human gp130 Protein, Fc Tag (Cat. No. ILT-H5254) is more than 90% and the molecular weight of this protein is around 210-250 kDa verified by SEC-MALS.

## Bioactivity-ELISA



Immobilized Human IL-6 R alpha & IL-6 Protein, His Tag (Cat. No. IL6-H52H4) at 5  $\mu\text{g/mL}$  (100  $\mu\text{L/well}$ ) can bind Human gp130 Protein, Fc Tag (Cat. No. ILT-H5254) with a linear range of 0.2-2 ng/mL (QC tested).

## Bioactivity-SPR



Human gp130 Protein, Fc Tag (Cat. No. ILT-H5254) captured on Protein A Chip can bind Human IL-6 R alpha & IL-6 Protein, His Tag (Cat. No. IL6-H52H4) with an affinity constant of 0.036 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

## Background

Interleukin-6 receptor subunit beta (IL6ST) is also known as IL-6 receptor subunit beta, IL-6R subunit beta, IL-6R-beta, IL-6RB, Interleukin-6 signal transducer, Membrane glycoprotein 130 (gp130), CD130, Oncostatin-M receptor subunit alpha and Il6st, which is single-pass type I membrane protein. IL6ST /gp130 /CD130 can be found in tissues such as brain, heart, thymus, spleen, kidney, lung and liver and found in all the cell lines tested except BaF-B03. The expression of IL-6ST

/gp130 is not restricted to IL6-responsive cells. The receptor systems for IL6, LIF, OSM, CNTF, IL11, CTF1 and BSF3 can utilize gp130 for initiating signal transmission. IL6ST /CD130 can bind to IL6 /IL6R (alpha chain) complex, resulting in the formation of high-affinity IL6 binding sites, and transduce the signal. IL6ST /GP130 does not bind IL6 and may have a role in embryonic development.



[www.acrobiosystems.com](http://www.acrobiosystems.com)

