

# Recombinant Mouse gp130/IL6ST protein (rFc Tag)(HPLC verified)

Catalog Number: Eg1631

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE  
>90 %, SEC-HPLC

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE  
>90 %, SEC-HPLC

**Endotoxin Level:**  
<0.1 EU/ µg protein, LAL method

**Source:**  
HEK293-derived Mouse gp130 protein Gln23-Glu617 (Accession# Q00560) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
16195

**Accession:**  
Q00560

**Predicted Molecular Mass:**  
92.9 kDa

**SDS-PAGE:**  
90-125 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Glycoprotein 130 (gp130, also known as IL6ST, CD130 or IL6-beta) is a ubiquitously expressed, signal-transducing receptor that serves as the signal transduction unit for IL-6 family of cytokines, including IL-6, IL-11, IL-27, leukemia inhibitory factor (LIF), OSM, ciliary neurotrophic factor (CNTF), cardiotrophin 1 (CT-1), and cardiotrophin-like cytokine (CLC). These cytokines signal through the gp130/Jak/STAT pathway. Binding of IL-6 to IL-6R induces gp130 homodimerization and formation of a high-affinity receptor complex, which activates Jaks. That causes phosphorylation of gp130 tyrosine residues which in turn activates STAT3. gp130 is a type I transmembrane protein, and can also exist as a soluble form (sgp130). sgp130 binds to sIL-6R/IL-6 complexes and prevents their interactions with membrane-anchored gp130 on target cells.

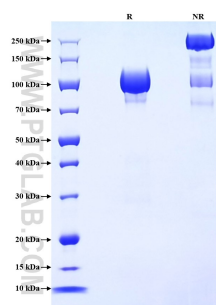
## References

1. T Taga, et al. (1997) Annu Rev Immunol. 15:797-819.
2. J S Silver, et al. (2010) J Leukoc Biol. 88(6):1145-56.
3. P C Heinrich, et al. (1998) Biochem J. 334 ( Pt 2):297-314.
4. F A Montero-Julian, et al. (1997) Clin Cancer Res. 3(8):1443-51.

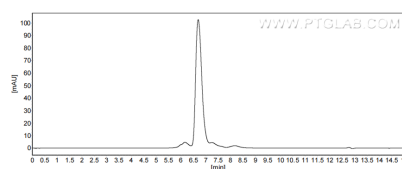
## Synonyms

CD130, gp130, IL-6 receptor subunit beta, IL-6R subunit beta, IL-6RB

## Selected Validation Data



Purity of Recombinant Mouse gp130 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Mouse gp130/IL6ST was greater than 90% as determined by SEC-HPLC.

For technical support and original validation data for this product please contact

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