

# Human gp130/CD130 (His & Fc Tag) recombinant protein



Catalog Number: 501833

## General Information

### Gene Name Synonym

CDw130; Interleukin-6 signal transducer; Membrane glycoprotein 130; Oncostatin-M receptor subunit alpha

### Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Ile 618) of human IL6ST (NP\_002175.2) precursor was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its ability to bind human IL11Ra in a functional ELISA.
2. Measured by its ability to inhibit the IL6 R $\alpha$  enhancement of IL6 activity on M1 mouse myeloid leukemia cells (Saito, T. et al. 1991, J. Immunol. 147:168.). The ED<sub>50</sub> for this effect is typically 0.05-0.15  $\mu$ g/ml in the presence of 50 ng/ml recombinant human IL6sR and 100 ng/ml recombinant human IL6.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu$ g of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Glu 23

### Molecular Mass

The recombinant human IL6ST/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer consists of 844 amino acids and has a predicted molecular mass of 96 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh IL6ST/Fc monomer is approximately 125-140 kDa due to glycosylation.

### Formulation

- Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE

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