



# Recombinant Protein Technical Manual

**Recombinant Mouse IL6ST/CD130 Protein (CHO Cells, His & Fc Tag)(Active)**  
RPES4440

## Product Data:

**Product SKU:** RPES4440

**Size:** 100µg

**Species:** Mouse

**Expression host:** CHO Cells

**Uniprot:** NP\_034690.3

## Protein Information:

**Molecular Mass:** 94.7 kDa

**AP Molecular Mass:** 12030 kDa

**Tag:** C-His-Fc

**Bio-activity:** 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 ED50 for this effect is typically 0.03-0.15 µg/ml in the presence of 10 ng/ml recombinant human

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** 5133400A03Rik;AA389424;BB405851;CD130;D13Ertd699e;gp130

## Immunogen Information:

**Sequence:** Met 1-Glu 617

## Background:

Glycoprotein 130 (also known as gp130, IL6ST, IL6-beta or CD130) is a transmembrane protein which is the founding member of the class of all cytokine receptors. CD130/gp130 is a signal transducer shared by many cytokines, including interleukin 6 (IL6), ciliary neurotrophic factor (CNTF), leukemia inhibitory factor (LIF), and Oncostatin M (OSM). CD130/gp130 functions as a part of the cytokine receptor complex. The activation of this protein is dependent upon the binding of cytokines to their receptors. CD130/gp130 plays a critical role in regulating myocyte apoptosis. Alternatively spliced transcript variants encoding distinct isoforms have been described. A related pseudogene has been identified on chromosome 17. The receptor systems for IL6, LIF, OSM, CNTF, IL11, CTF1 and BSF3 can utilize gp130 for initiating signal transmission. CD130/gp130 binds to IL6/IL6R (alpha chain) complex, resulting in the formation of high-affinity IL6 binding sites, and transduces the signal. CD130/gp130 may have a role in embryonic development. The type I OSM receptor is capable of transducing OSM-specific signaling events.