# Recombinant Mouse gp130 Fc Chimera

Catalog Number: 468-MG

## DESCRIPTION

**Source**

Mouse myeloma cell line, NS0-derived mouse gp130 protein

| Mouse gp130 (Gln23-Glu617) Accession # Q6PDI9 | DIEGRMD | Human $IgG_1$ (Pro100-Lys330) | 6-His tag |
|---|---|---|---|

N-terminus C-terminus

**N-terminal Sequence Analysis**

No results obtained: Gln23 predicted

**Structure / Form**

Disulfide-linked homodimer

**Predicted Molecular Mass**

94 kDa (monomer)

## SPECIFICATIONS

**SDS-PAGE**

115 kDa, reducing conditions

**Activity**

Measured by its ability to inhibit IL-6-dependent proliferation of the 7TD1 mouse hybridoma cells in the presence of Recombinant Human IL-6 Rα (Catalog # 227-SR).
The $ED_{50}$ for this effect is 0.12-1.2 ng/mL.

**Endotoxin Level**

<1.0 EU per 1 µg of the protein by the LAL method.

**Purity**

>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

**Formulation**

Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.

## PREPARATION AND STORAGE

**Reconstitution**

Reconstitute at 100 µg/mL in sterile PBS.

**Shipping**

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

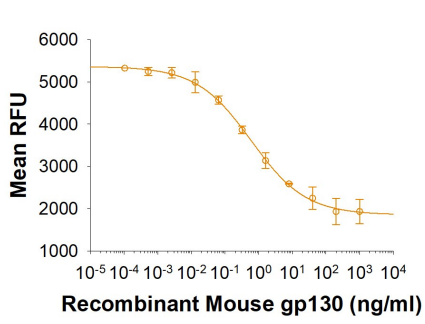
**Stability & Storage**

**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

## DATA

**Bioactivity**




Recombinant Mouse gp130 Fc Chimera (Catalog # 468-MG) inhibits IL-6-dependent proliferation of the 7TD1 mouse hybridoma cells in the presence of Recombinant Human IL-6 R alpha (Catalog # 227-SR). The $ED_{50}$ for this effect is 0.12-1.2 ng/mL.

## BACKGROUND

Gp130, the common signal transducing receptor component shared by the functional receptor complexes of the IL-6 family of cytokines, belongs to the class I cytokine receptor family. Binding of IL-6 (IL-11) to either the membrane-anchored or soluble IL-6 R (IL-11 R) initiates the association of IL-6 R (IL-11 R) with gp130 which then undergoes homo-dimerization and signal transduction. With other IL-6 family cytokines, such as LIF and OSM, signal transduction is triggered by the hetero-dimerization of gp130 and LIF R or OSM R.

Gp130 is expressed in all organs examined. Soluble gp130, which apparently arises either from proteolytic cleavage of the membrane-bound receptor or from alternative splicing, has been detected in human serum. The *in vivo* functions of soluble gp130 are not clearly understood. In *in vitro* experiments, natural or recombinant soluble gp130 has been shown to have inhibitory effects on OSM and CNTF activities.

**References:**


1. Narazaki, M. *et al.* (1993) Blood **82**:1120.
2. Taga, T. and T. Kishimoto (1997) Annu. Rev. Immunol. **15**:797.





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