

Mouse IL6ST / CD130 Protein (His & Fc Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 50135-M03C

General Information

Gene Name Synonym:

5133400A03Rik; AA389424; BB405851; CD130; D13Ert699e; gp130

Protein Construction:

A DNA sequence encoding the mouse gp130 (NP_034690.3) extracellular domain (Met 1-Glu 617) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

Source: Mouse

Expression Host: CHO Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

Measured by its ability to inhibit the IL-6R α enhancement of IL-6 activity on M1 mouse myeloid leukemia cells. The ED₅₀ for this effect is typically 0.1-0.6 μ g/mL in the presence of 100 ng/mL recombinant human IL-6sR and 100 ng/mL recombinant human IL-6.

Endotoxin:

< 1.0 EU per μ 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 19

Molecular Mass:

The recombinant mouse gp130/Fc chimera is a disulfide-linked homodimer. The reduced monomer consists of 843 amino acids and has a predicted molecular mass of 94.7 kDa. As a result of glycosylation, the apparent molecular mass of rm gp130/Fc monomer is approximately 120-130 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

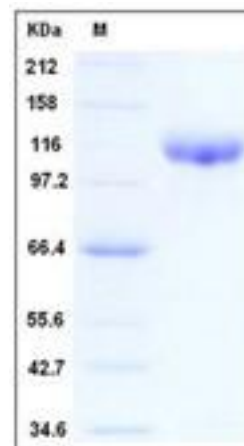
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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.

References

- 1.Hibi, *et al.* (1990) Molecular cloning and expression of an IL-6 signal transducer, gp130. *Cell*. 63 (6): 1149-57.
- 2.Kim H, *et al.* (1997) Transmembrane domain of gp130 contributes to intracellular signal transduction in hepatic cells. *J Biol Chem*. 272 (49): 30741-7.
- 3.Giordano V, *et al.* (1997) Shc mediates IL-6 signaling by interacting with gp130 and Jak2 kinase. *J Immunol*. 158 (9): 4097-103.

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