

Recombinant Human IL6ST

Cat. No. IL6ST-1682H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL6ST encoding the 619 amino acid residues extracellular domain of human gp130 was inserted into an appropriate expression vector and expressed in <i>Sf 21 insect cells</i> .
Species	Human
Source	Sf21 Cells
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 tall cytokine receptors. It forms one subunit of type I cytokine receptors within the IL-6 receptor family. It is often referred to as the common gp130 subunit, and is important for signal transduction following cytokine engagement. Gp130 signals are mediated by tyrosine kinases of the JAK family and by their binding partners, transcription factors of the STAT family. Gp130 signaling is very important for osteoblast function and calcium homeostasis.
Molecular Weight	The predicted molecular weight of Recombinant Human soluble gp130 is Mr 68 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.

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Biological Activity

The biological activity of Human soluble gp130 was determined by its ability to inhibit the IL-6 sR enhancement of IL-6 activity on a mouse myeloid leukemia cell line, M1 (Saito, T. et al., 1991, J. Immunol. 147:168). The expected ED50 for this effect is typically 0.5-2 µg/mL in the presence of 10 ng/mL rhIL-6 sR and 20 ng/mL rhIL-6.

Storage And Stability

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name [IL6ST interleukin 6 signal transducer \(gp130, oncostatin M receptor\) \[Homo sapiens \]](#)

Synonyms

IL6ST; interleukin 6 signal transducer (gp130, oncostatin M receptor); GP130; CD130; Interleukin-6 receptor subunit beta; IL-6R-beta; Interleukin-6 signal transducer; Membrane glycoprotein 130; gp130; CDw130; Oncostatin-M receptor subunit alpha; GP130-RAPS; OTTHUMP00000122545; IL6ST nirs variant 3; gp130 of the rheumatoid arthritis antigenic peptide-bearing soluble form; membrane glycoprotein gp130

Gene ID [3572](#)

mRNA Refseq [NM_002184](#)

Protein Refseq [NP_002175](#)

MIM [600694](#)

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UniProt ID	P40189
Chromosome Location	5q11
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway
Function	ciliary neurotrophic factor binding; ciliary neurotrophic factor receptor activity; interleukin-11 receptor activity; interleukin-27 receptor activity; interleukin-6 receptor activity; interleukin-6 receptor binding; leukemia inhibitory factor receptor activity; oncostatin-M receptor activity; protein homodimerization activity; receptor activity
crystal structure from PDB 1p9m.	