

Recombinant Human IL6ST, Fc-His

Cat. No. IL6ST-1622H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL6ST encoding the extracellular domain of Human gp130 was fused to the carboxy-terminal 6X histidine-tagged Fc region of human IgG1 via a polypeptide linker, inserted into an appropriate mammalian expression vector and was expressed in <i>NSO cells</i> .
Species	Human
Source	Mammalian 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.
State Of Matter	Lyophilized.
Purity	>90% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Molecular Weight	The predicted molecular weight of Recombinant Human gp130 is Mr 95 kDa.

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However, the actual molecular weight as observed by migration on SDS Page is Mr 150 kDa.

Formulation

This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.

Biological Activity

The biological activity of Human 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. The expected ED50 is typically 0.05 - 0.15 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.

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

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Protein Refseq	NP_002175
MIM	600694
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
Gp130 extracellular domain crystal structure from PDB 1p9m.	