

Recombinant Mouse Interleukin 6 Signal Transducer, Fc-His

Cat. No. Il6st-1743M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il6st encoding the extracellular domain of the gp130 protein sequence was fused to the carboxy-terminal 6X his-tagged Fc region of human IgG1 via a linker peptide, inserted into a suitable mammalian expression vector and expressed in <i>NSO Cells</i> .
Species	Mouse
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.
Molecular Weight	The predicted molecular weight of Recombinant Mouse gp130 is Mr 94 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 130 kDa.
State Of Matter	Lyophilized.
Purity	>90% by SDS Page and analyzed by silver stain.

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Endotoxin	<0.1 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Mouse 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 0.03-0.10 mg/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 [<i>Mus musculus</i>]
Synonyms	Il6st; interleukin 6 signal transducer; CD130; gp130; AA389424; BB405851; D13Ert699e; 5133400A03Rik
Gene ID	16195
mRNA Refseq	NM_010560
Protein Refseq	NP_034690
UniProt ID	Q00560
Chromosome Location	13 D2.2; 13 67.0 cM

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Pathway

Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway

Function

cytokine receptor activity; interleukin-11 binding; interleukin-11 receptor activity; protein binding; receptor activity

Gp130 extracellular domain crystal structure from PDB 1p9m.

