Recombinant Mouse Il6st Protein, His-tagged

Cat. No. Il6st-7247M **Lot. No.** (See product label)

SPECIFICATION

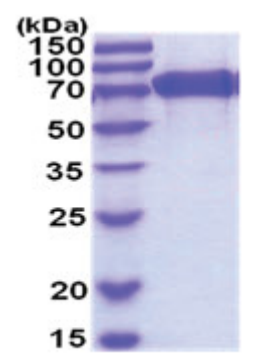
Product Overview	Recombinant Mouse Il6st protein with a His tag was expressed in insect cells.
Species	Mouse
Source	Insect Cells
ProteinLength	23-617
Description	Signal-transducing molecule. The receptor systems for IL6, LIF, OSM, CNTF, IL11, CTF1 and BSF3 can utilize IL6ST for initiating signal transmission. Binding of IL6 to IL6R induces IL6ST homodimerization and formation of a high-affinity receptor complex, which activate the intracellular JAK-MAPK and JAK-STAT3 signaling pathways. That causes phosphorylation of IL6ST tyrosine residues which in turn activates STAT3. In parallel, the IL6 signaling pathway induces the expression of two cytokine receptor signaling inhibitors, SOCS1 and SOCS3, which inhibit JAK and terminate the activity of the IL6 signaling pathway as a negative feedback loop. Also activates the yes-associated protein 1 (YAP) and NOTCH pathways to control inflammation-induced epithelial regeneration, independently of STAT3. Mediates signals which regulate immune response, hematopoiesis, pain control and bone metabolism. Has a role in embryonic development. Essential for survival of motor and sensory neurons and for differentiation of astrocytes. Required for expression of TRPA1 in nociceptive neurons. Required for the maintenance of PTH1R expression in the osteoblast lineage and for the stimulation of PTH-induced osteoblast differentiation. Required for normal trabecular bone mass and cortical bone

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	composition.
Form	Liquid
Molecular Mass	67.7 kDa
AA Sequence	QLLEPCGYIYPEFPVVQRGSNFTAICVLKEACLQHYYVNASYIVWKTNHAAVPREQV TVINRTTSSVTFTDVVLPSVQLTCNILSFGQIEQNVYGVTMLSGFPPDKPTNLTCIVNE GKNMLCQWDPGRETYLETNYTLKSEWATEKFPDCQSKHGTSCMVSYMPTYYVNIE VWVEAENALGKVSSESINFDPVDKVKPTPPYNLSVTNSEELSSILKLSWVSSGLGGL LDLKSDIQYRTKDASTWIQVPLEDTMSPRTSFTVQDLKPFTEYVFRIRSIKDSGKGYW SDWSEEASGTTYEDRPSRPPSFWYKTNPSHGQEYRSVRLIWKALPLSEANGKILDY EVILTQSKSVSQTYTVTGTELTVNLTNDRYVASLAARNKVGKSAAAVLTIPSPHVTAA YSVVNLKAFPKDNLLWVEWTPPPKPVSKYILEWCVLSENAPCVEDWQQEDATVNR THLRGRLLESKCYQITVTPVFATGPGGSESLKAYLKQAAPARGPTVRTKKVGKNEAV LAWDQIPVDDQNGFIRNYSISYRTSVGKEMVVHVDSSHTEYTLSSLSSDTLYMVRMA AYTDEGGKDGPEFTFTTPKFAQGEIELEHHHHHH
Endotoxin	< 1.0 EU/μg of protein (determined by LAL method)
Purity	> 95 % by SDS-PAGE
Stability	Shelf life: one year from despatch.
Storage	Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing.
Concentration	1.0 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.

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GENE INFORMATION

Gene Name	Il6st interleukin 6 signal transducer [Mus musculus (house mouse)]
Official Symbol	Il6st
Synonyms	Il6st; interleukin 6 signal transducer; gp13; CD130; gp130; AA389424; BB405851; D13Ertd699; D13Ertd699e; 5133400A03Rik; interleukin-6 receptor subunit beta; IL-6 receptor subunit beta; IL-6R subunit beta; IL-6R-beta; IL-6RB; membrane glycoprotein 130; oncostatin-M receptor subunit alpha
Gene ID	16195
mRNA Refseq	NM_010560
Protein Refseq	NP_034690
UniProt ID	Q00560
SDS-PAGE	 15% SDS-PAGE (3ug)

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