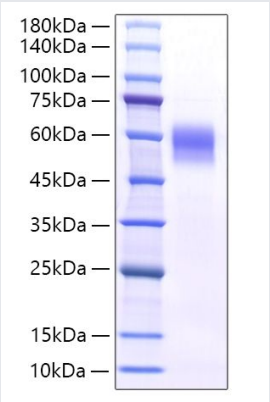
IL-6RA/CD126 Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	IL-6RA/CD126, Recombinant Protein
Full Product Name	Recombinant Mouse IL-6RA/CD126 Protein
Product Gene Name	IL-6RA/CD126 recombinant protein
Product Synonym Names	IL-6 receptor subunit alpha; IL-6R subunit alpha; IL-6R-alpha; IL-6RA;CD126;Il6ra;Il6r
Sequence	LVLGSCRALE VANGTVTSLP GATVTLICPG KEAAGNVTIH WVYSGSQNRE WTTTGNTLVL RDVQLSDTGD YLCSLNDHLV GTVPLLVDVP PEEPKLSCFR KNPLVNAICE WRPSSTPSPT TKAVLFAKKI NTTNGKSDFQ VPCQYSQQLK SFSCQVEILE GDKVYHIVSL CVANSVGSKS SHNEAFHSLK MVQPDPPANL VVSAIPGRPR WLKVSWQHPE TWDPSYYLLQ FQLRYRPVWS KEFTVLLLPV AQYQCVIHDA LRGVKHVVQV RGKEELDLGQ WSEWSPEVTG TPWIAEPRTT PAGILWNPTQ VSVEDSANHE DQYESSTEAT SVLAPVQE
Host	HEK293 cells
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH7.4.
Preparation and Storage	Store at -20 degree C. Store the lyophilized protein at -20 degree C to -80 degree C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.
3D Structure	ModBase 3D Structure for P22272
Species	Mouse
Tag	C-His
Endotoxin	<0.01 EU/ug
Product Categories/Family for IL-6RA/CD126 recombinant protein	Cytokines & Cytokine receptors; Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL-6RA/CD126 recombinant protein	IL-6R alpha (IL-6RA) is a subunit alpha of IL-6 receptors, also shared by other interleukin receptors. IL-6RA is a type I transmembrane glycoprotein, which forms a complex with the type I transmembrane signal transducer Glycoprotein 130 (CD130) and regulates the biological activity of IL-6 with a low affinity. IL-6RA acts as IL-6 agonist and involves in JAK/STAT, MAPK, and Akt signaling pathway. IL-6RA has 2 isoform including mIL-6R (the longer one) or sIL-6R (the shorter one): The mIL-6R is membrane-bound interleukin-6 receptor, has the potential to drive naive CD4+ T cells to the Th17 lineage, through 'cluster signaling' by dendritic cells. The sIL-6R is soluble interleukin-6 receptor subunit, cleaved from IL-6RA in activated CD4+ T cells by proteolysis, and serves as IL-6 agonist. sIL-6R binds membrane-bound IL-6R and subunit IL6ST to activate regenerative and anti-inflammatory signal via IL-6 trans signaling and promotes pro-inflammatory properties of IL-6. The hydrolysis of IL-6R alpha is also called ectodomain shedding. IL-6RA involves in regulating cell growth and differentiation, and plays an important role in regulation of immune response, acute-phase reactions and hematopoiesis. However, IL-6RA shows tissue expression specificity in liver and some cells of the immune system, thus results a limitation of IL6 signaling. It's worth noting that IL-6RA dysregulation is implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases, and prostate cancer.
Other Notes	Small volumes of IL-6RA/CD126 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IL-6RA/CD126 purchase	MBS9149039 is a recombinant protein targeting IL-6RA/CD126. Also known as Recombinant Mouse IL-6RA/CD126 Protein. Host: HEK293 cells.



SDS-PAGE of IL-6RA/CD126 recombinant protein
Recombinant Mouse IL-6RA/CD126 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 50-65 kDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-6RA/CD126. It may not necessarily be applicable to this product.

NCBI GI #	110431356
NCBI GeneID	16194
NCBI Accession #	NP_034689.2
UniProt Primary Accession #	P22272
UniProt Related Accession #	P22272
GenBank Nucleotide #	NM_010559.3
UniProt Protein Name	Interleukin-6 receptor subunit alpha
UniProt Synonym Protein Names	IL-6R 1; CD_antigen: CD126
UniProt Gene Name	Il6ra
UniProt Synonym Gene Names	Il6r; IL-6 receptor subunit alpha; IL-6R subunit alpha; IL-6R-alpha; IL-6RA
UniProt Entry Name	IL6RA_MOUSE
UniProt Comments for IL-6RA/CD126	IL6R: Part of the receptor for interleukin 6. Binds to IL6 with low affinity, but does not transduce a signal. Signal activation necessitate an association with IL6ST. Activation may lead to the regulation of the immune response, acute-phase reactions and hematopoiesis. Belongs to the type I cytokine receptor family. Type 3 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, cytokine Cellular Component: apical plasma membrane; cell surface; extracellular region; extracellular space; integral to membrane; interleukin-6 receptor complex; membrane Molecular Function: ciliary neurotrophic factor receptor activity; enzyme binding; hematopoietin/interferon-class (D200-domain) cytokine receptor activity; interleukin-6 binding; interleukin-6 receptor activity; interleukin-6 receptor binding; protein homodimerization activity Biological Process: cell growth; cytokine and chemokine mediated signaling pathway; developmental growth; endocrine pancreas development; negative regulation of collagen biosynthetic process; positive regulation of cell proliferation; positive regulation of chemokine production; positive regulation of interleukin-6 production; positive regulation of JAK-STAT cascade; positive regulation of MAPKKK cascade; positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of smooth muscle cell proliferation; positive regulation of tyrosine phosphorylation of Stat3 protein; response to cytokine stimulus

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