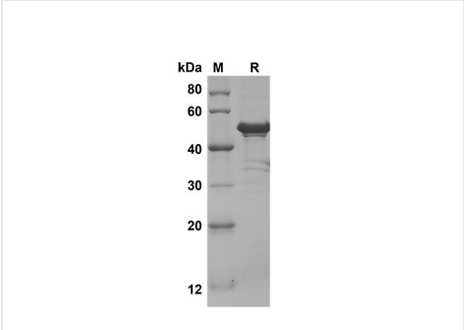
IL-11 Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	IL-11, Recombinant Protein
Full Product Name	Recombinant Mouse IL-11 Protein (Trx Tag)
Product Gene Name	IL-11 recombinant protein
Product Synonym Names	Interleukin; IL-11; Interleukin-11; Zcyto1; Zcyto10; Il11; AGIF; interleukin 11
Sequence	Pro22-Leu1 99
Host	E coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Purity/Purification	>90% as determined by reducing SDS-PAGE.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	21,522 Da
3D Structure	ModBase 3D Structure for P47873
Species	Mouse
Tag	N-Trx
Endotoxin	<10EU/mg of the protein as determined by the LAL method.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5mg/mL. Concentration is measured by UV-Vis.
Product Categories/Family for IL-11 recombinant protein	Proteins; Recombinant Proteins; Cytokines
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL-11 recombinant protein	IL11 is a multifunctional cytokine first isolated in 199 from bone marrow-derived stromal cells. It is a key regulator of multiple events in hematopoiesis, most notably the stimulation of megakaryocyte maturation. IL11 is also known under the names adipogenesis inhibitory factor (AGIF) and oprelvekin. IL11 can improve platelet recovery after chemotherapy-induced thrombocytopenia, induce acute-phase proteins, modulate antigen-antibody responses, participate in the regulation of bone cell proliferation and differentiation, and could be used as a therapeutic for osteoporosis. IL11 stimulates the growth of certain lymphocytes and, in the murine model, stimulates an increase in the cortical thickness and strength of long bones. As a signaling molecule, IL11 has a variety of functions associated with its receptor interleukin 11 receptor alpha, such functions include placentation and to some extent of decidualization.
Other Notes	Small volumes of IL-11 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-11 purchase	MBS2580810 is a recombinant protein targeting IL-11. Also known as Recombinant Mouse IL-11 Protein (Trx Tag). Host: E coli.



SDS-PAGE of IL-11 recombinant protein
SDS-PAGE analysis of Mouse IL-11 proteins, 2ug/lane of Recombinant Mouse IL-11 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 45KD

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-11. It may not necessarily be applicable to this product.

NCBI GI #	6680393
NCBI GeneID	16156
NCBI Accession #	NP_032376.1
UniProt Primary Accession #	P47873
UniProt Related Accession #	P47873
GenBank Nucleotide #	NM_008350.4
NCBI Official Full Name	interleukin-11 isoform 1
NCBI Official Synonym Full Names	interleukin 11
NCBI Official Symbol	Il11
NCBI Official Synonym Symbols	IL-11
UniProt Protein Name	Interleukin-11
UniProt Gene Name	Il11
UniProt Synonym Gene Names	IL-11
UniProt Entry Name	IL11_MOUSE
NCBI Protein Information	interleukin-11
UniProt Comments for IL-11	IL11: Directly stimulates the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells and induces megakaryocyte maturation resulting in increased platelet production. Belongs to the IL-6 superfamily. Protein type: Secreted, signal peptide; Motility/polarity/chemotaxis; Cell cycle regulation; Cytokine Cellular Component: extracellular space; cytoplasm; extracellular region Molecular Function: growth factor activity; cytokine activity; interleukin-11 receptor binding Biological Process: positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of MAPKKK cascade; negative regulation of hormone secretion; positive regulation of cell proliferation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of peptidyl-serine phosphorylation
Research Articles on IL-11	**1.** PGF2alpha inhibits adipocyte differentiation by means of an IL-11 mediated autocrine negative feedback loop, that acts via gp130 to block adipogenesis through the essential actions of the STAT1 transcription factor.

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