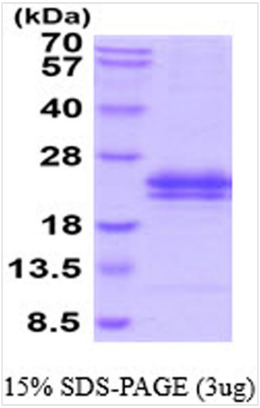
IL7 Baculovirus Recombinant Protein

PRODUCT OVERVIEW

Product Name	IL7, Recombinant Protein
Full Product Name	IL7, 26-177aa, Human, His-tag, Baculovirus
Product Gene Name	IL7 recombinant protein
Product Synonym Names	Interleukin-7 isoform 1; IL7; IL-7; Il7; Interleukin-7; hlb368
Sequence	ADPDCDIEGK DGKQYESVLM VSIDQLLDSM KEIGSNCLNN EFNFFKRHIC DANKEGMFLF RAARKLRQFL KMNSTGDFDL HLLKVSEGTT ILLNCTGQVK GRKPAALGEA QPTKSLEENK SLKEQKKLND LCFLKRLLQE IKTCWNKILM GTKEHHHHHH H
Host	Baculovirus
Form/Format	Liquid. In phosphate buffered saline (pH 7.4) containing 10% glycerol.
Purity/Purification	> 90% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Absorbance at 280nm) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	18.4kDa (161aa) 18-28kDa (SDS-PAGE under reducing conditions.)
OMIM	J04156 mRNA
3D Structure	ModBase 3D Structure for P13232
Antigen Species	Human
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Product Categories/Family for IL7 recombinant protein	Hormones & Cytokines; Immunology
Applications Tested/Suitable for IL7 recombinant protein	SDS-PAGE
Related Product Information for IL7 recombinant protein	IL7, as known as interleukin-7 isoform 1, is a cytokine of the hemopoietin family that plays important roles in lymphocyte differentiation, proliferation, and survival. This protein is a hematopoietic growth factor secreted by stromal cells in the bone marrow and thymus. It is also produced by keratinocytes, dendritic cells, hepatocytes, neurons, and epithelial cells but is not produced by normal lymphocytes. Recombinant human IL7, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product References and Citations for IL7 recombinant protein	Iolyeva M., et al. (2013) Blood 122:2271-2281.; Younas M., et al. (2013) J. Immunol. 191:3161-3168.
Other Notes	Small volumes of IL7 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 IL7 purchase	MBS206449 is a recombinant protein targeting IL7. Also known as IL7, 26-177aa, Human, His-tag, Baculovirus. Host: Baculovirus.



SDS-Page of IL7 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL7. It may not necessarily be applicable to this product.

NCBI GI #	4504677
NCBI GeneID	3574
NCBI Accession #	NP_000871
UniProt Primary Accession #	P13232
UniProt Secondary Accession #	Q5FBY5; Q5FBY9; A0N0L3
UniProt Related Accession #	P13232
GenBank Nucleotide #	NM_000880.3
NCBI Official Full Name	interleukin-7 isoform 1
NCBI Official Synonym Full Names	interleukin 7
NCBI Official Symbol	IL7
NCBI Official Synonym Symbols	IL-7
UniProt Protein Name	Interleukin-7
Protein Family	Interleukin
UniProt Gene Name	IL7
UniProt Synonym Gene Names	IL-7
NCBI Protein Information	interleukin-7
NCBI Summary for IL7	The protein encoded by this gene is a cytokine important for B and T cell development. This cytokine and the hepatocyte growth factor (HGF) form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. This cytokine is found to be a cofactor for V(D)J rearrangement of the T cell receptor beta (TCRB) during early T cell development. This cytokine can be produced locally by intestinal epithelial and epithelial goblet cells, and may serve as a regulatory factor for intestinal mucosal lymphocytes. Knockout studies in mice suggested that this cytokine plays an essential role in lymphoid cell survival. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional splice variants have been described but their presence in normal tissues has not been confirmed.[provided by RefSeq, Dec 2010]
UniProt Comments for IL7	Hematopoietic growth factor capable of stimulating the proliferation of lymphoid progenitors. It is important for proliferation during certain stages of B-cell maturation.
Research Articles on IL7	**1.** In this study, authors compared the concentrations of IL-15 and IL-7 in the plasma of MDS patients (n = 20) compared with that in the plasma of healthy controls (n = 20).

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