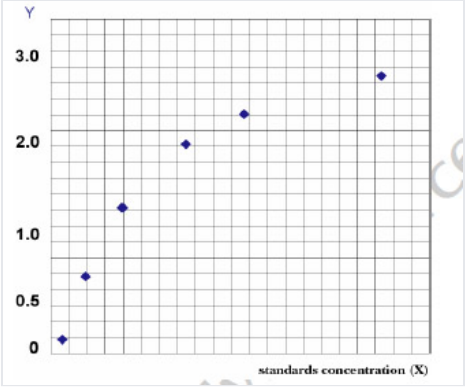
Interleukin 7 (IL 7) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Interleukin 7 (IL 7), ELISA Kit
Full Product Name	Human Interleukin 7 ELISA Kit
Product Gene Name	IL 7 elisa kit
Species Reactivity	Human
Assay Type	Competitive or Sandwich
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	50-1000 pg/mL
Sensitivity	1.0pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	7,687 Da
OMIM	146660
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Highest Standards	1000 pg/mL
Concentration of Standards	Concentration of Standards||0,50,100,250,500,1000 pg/mL
Product Categories/Family for IL 7 elisa kit	Immunology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for IL 7 elisa kit	MBS728631 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Interleukin 7 (IL 7) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing IL 7. The ELISA analytical biochemical technique of the MBS728631 kit is based on IL 7 antibody-IL 7 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL 7 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL 7. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of IL 7 elisa kit 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.



Typical Testing Data/Standard Curve (for reference only) of IL 7 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL 7. It may not necessarily be applicable to this product.

NCBI GI #	315467871
NCBI GeneID	3574
NCBI Accession #	NP_001186817.1
UniProt Secondary Accession #	Q5FBY5; Q5FBY9; A0N0L3
UniProt Related Accession #	P13232
GenBank Nucleotide #	NM_001199888.1
NCBI Official Full Name	interleukin-7 isoform 4
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-7 receptor
UniProt Gene Name	IL7
UniProt Synonym Gene Names	IL-7
UniProt Entry Name	IL7_HUMAN
NCBI Protein Information	interleukin-7
NCBI Summary for IL 7	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 IL 7	IL7: Hematopoietic growth factor capable of stimulating the proliferation of lymphoid progenitors. It is important for proliferation during certain stages of B-cell maturation. Belongs to the IL-7/IL-9 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Apoptosis; Cell cycle regulation; Cell development/differentiation; Cytokine; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 8q12-q13 Cellular Component: extracellular space; extracellular region Molecular Function: interleukin-7 receptor binding; protein binding; growth factor activity; cytokine activity Biological Process: T cell lineage commitment; organ morphogenesis; cell-cell signaling; positive regulation of T cell differentiation; homeostasis of number of cells within a tissue; regulation of gene expression; positive regulation of cell proliferation; negative regulation of catalytic activity; positive regulation of B cell proliferation; positive regulation of organ growth; humoral immune response; negative regulation of apoptosis; bone resorption
Research Articles on IL 7	**1.** Low-level transient antigenic stimuli during cART were not associated with changes in the thymic function or the IL-7/CD127 system.
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