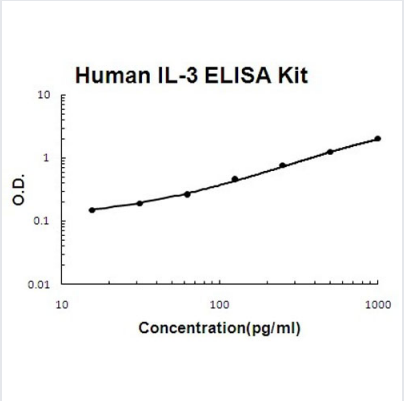
Il-3 (IL3) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	IL-3 (IL3), ELISA Kit
Full Product Name	Human IL-3 PicoKine ELISA Kit
Product Gene Name	IL3 elisa kit
Product Synonym Names	Interleukin-3; interleukin 3; Burst promoting activity; Colony stimulating factor multiple; Eosinophil colony stimulating factor; Hematopoietic growth factor; IL 3; IL-3; IL3; IL3_HUMAN; Interleukin 3; Interleukin-3; Mast cell growth factor; MCGF; Multi CSF; Multilineage colony stimulating factor; Multipotential colony stimulating factor; Multipotential colony-stimulating factor; P cell stimulating factor; P-cell-stimulating factor; Thy1 inducing factor
Species Reactivity	Human
Assay Type	Sandwich
Samples	Cell culture supernates, serum and plasma (heparin, EDTA, citrate)
Detection Range	15.6pg/ml-1000pg/ml
Sensitivity	< 1pg/ml
Specificity	Natural and recombinant human IL-3
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)
Molecular Weight	17,233 Da
OMIM	147740
3D Structure	ModBase 3D Structure for P08700
Production Time	Due to severe delay and raw materials shortage, production time may takes between 5-8 weeks.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for IL3 elisa kit	**Principle of the assay:** human IL-3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IL-3 has been precoated onto 96-well plates. Standards and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL-3 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human IL-3 amount of sample captured in plate. **Background:** The gene IL-3 encodes interleukin 3, a hematopoietic colony-stimulating factor (CSF) that is capable of supporting the proliferation of a broad range of hematopoietic cell types.1 Interleukin-3 (IL-3), a protein of 140 amino acids, ischemically synthesized by means of an automated peptide synthesizer and is shown to have the biological activities attributed to native IL-3.2 The cDNA sequence for murine interleukin-3, one of the colony stimulating factors thatregulate haematopoiesis, codes for a polypeptide of 166 amino acids including a putative signal peptide.3 Themouse IL 3 gene is located on chromosome 11.4 The human gene encoding IL 3 is tandemly arrayed on the longarm of chromosome 5.5 The standard product used in this kit is recombinant human IL-3, consisting of 133 aminoacids with the molecular mass of 15KDa.
Other Notes	Small volumes of IL3 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.

Searchable Terms for IL3 purchase	MBS175788 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the IL-3 (IL3) 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 IL3. The ELISA analytical biochemical technique of the MBS175788 kit is based on IL3 antibody-IL3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL3. 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(%).



Typical Testing Data/Standard Curve (for reference only) of IL3 elisa kit
Human IL-3 PicoKine ELISA Kit standard curve

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL3. It may not necessarily be applicable to this product.

NCBI GI #	124330
NCBI GeneID	3562
NCBI Accession #	P08700.2
UniProt Primary Accession #	P08700
UniProt Secondary Accession #	Q6GS87
UniProt Related Accession #	P08700
NCBI Official Full Name	Interleukin-3
NCBI Official Synonym Full Names	interleukin 3
NCBI Official Symbol	IL3
NCBI Official Synonym Symbols	IL-3; MCGF; MULTI-CSF
UniProt Protein Name	Interleukin-3
UniProt Synonym Protein Names	Hematopoietic growth factor; Mast cell growth factor; MCGF; Multipotential colony-stimulating factor; P-cell-stimulating factor
Protein Family	Interleukin
UniProt Gene Name	IL3
UniProt Synonym Gene Names	IL-3; MCGF
UniProt Entry Name	IL3_HUMAN
NCBI Protein Information	interleukin-3; mast cell growth factor; mast-cell growth factor; P-cell stimulating factor; P-cell-stimulating factor; hematopoietic growth factor; colony-stimulating factor, multiple; multilineage-colony-stimulating factor; multipotential colony-stimulating factor

NCBI Summary for IL3	The protein encoded by this gene is a potent growth promoting cytokine. This cytokine is capable of supporting the proliferation of a broad range of hematopoietic cell types. It is involved in a variety of cell activities such as cell growth, differentiation and apoptosis. This cytokine has been shown to also possess neurotrophic activity, and it may be associated with neurologic disorders. [provided by RefSeq, Jul 2008]
UniProt Comments for IL3	IL3: Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. Belongs to the IL-3 family. Protein type: Secreted, signal peptide; Apoptosis; Secreted; Cell cycle regulation; Cytokine; Oncoprotein Chromosomal Location of Human Ortholog: 5q31.1 Cellular Component: extracellular space; extracellular region Molecular Function: interleukin-3 receptor binding; growth factor activity; cytokine activity Biological Process: nervous system development; positive regulation of peptidyl-tyrosine phosphorylation; cell-cell signaling; positive regulation of tyrosine phosphorylation of Stat5 protein; embryonic hemopoiesis; cytokine and chemokine mediated signaling pathway; positive regulation of cell proliferation; immune response; positive regulation of myeloid leukocyte differentiation; positive regulation of DNA replication
Research Articles on IL3	**1.** A single nucleotide polymorphism (SNP; rs20541) in the IL-13 gene has been recognized as a risk factor for asthma.
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