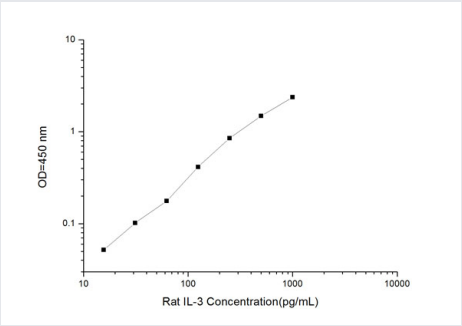
Il-3 ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	IL-3, ELISA Kit
Full Product Name	Rat IL-3 (Interleukin 3) ELISA Kit
Product Gene Name	IL-3 elisa kit
Species Reactivity	Rat
Assay Type	Sandwich
Samples	Serum, Plasma, Biological Fluids
Detection Range	15.625-1000pg/mL
Sensitivity	Min: 9.375pg/mL; Max: 1000pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat IL-3. No significant cross-reactivity or interference between Rat IL-3 and analogues was observed. Note: Limited by current skills and knowledge, it is impossible for us to complete the cross- reactivity detection between Rat IL-3 and all the analogues, therefore, cross reaction may still exist.
Preparation and Storage	Store at 4 degree C.
Molecular Weight	17,233 Da
OMIM	147740
3D Structure	ModBase 3D Structure for P08700
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL-3 elisa kit	**Description:** The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of IL-3 in Rat serum, plasma and other biological fluids **Principle of the Assay:** This ELISA kit uses Sandwich-ELISA as the method. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Rat IL-3. Standards or samples are added to the appropriate micro ELISA plate wells and bound by the specific antibody. Then a biotinylated detection antibody specific for Rat IL-3 and Avidin-Horseradish Peroxidase (HRP) conjugate is added to each micro plate well successively and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Rat IL-3, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The OD value is proportional to the concentration of Rat IL-3. You can calculate the concentration of Rat IL-3 in the samples by comparing the OD of the samples to the standard curve.
Other Notes	Small volumes of IL-3 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 IL-3 purchase	MBS2509354 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the IL-3, 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-3. The ELISA analytical biochemical technique of the MBS2509354 kit is based on IL-3 antibody-IL-3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL-3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL-3. 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 IL-3 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-3. It may not necessarily be applicable to this product.

NCBI GI #	3002475
NCBI GeneID	3562
NCBI Accession #	AAC08706.1
UniProt Primary Accession #	P08700
UniProt Secondary Accession #	Q6GS87
UniProt Related Accession #	P08700
NCBI Official Full Name	IL-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
UniProt Gene Name	IL3
UniProt Synonym Gene Names	IL-3; MCGF
UniProt Entry Name	IL3_HUMAN
NCBI Protein Information	interleukin-3; P-cell stimulating factor; P-cell-stimulating factor; colony-stimulating factor, multiple; hematopoietic growth factor; mast cell growth factor; mast-cell growth factor; multilineage-colony-stimulating factor; multipotential colony-stimulating factor
NCBI Summary for IL-3	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 IL-3	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; Secreted; Apoptosis; Oncoprotein; Cell cycle regulation; Cytokine 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 IL-3	**1.** results suggest that HuR recognizes the ARE-rich region in the IL-3 3'-UTR and plays a role in the IL-3 3'-UTR-mediated post-transcriptional control in T-cells
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